

Appendix A
(REPLACEMENT SHEETS AND
ANNOTATED SHEETS SHOWING CHANGES)

FIG. 26.

CONSENSUS:	cgccaracaat	gggctracgr	ccggcacyga	caaccttwtg	ccattcaatm	tttgttattcc	1020
CEF94-A:	.....a.....	.....a.....	.....g...a	.....a.....	.....t...	.....a.....	1020
D6948-A:	.....g.....	.....g.....	.....a...g	.....a.....	.....t...	.....a.....	1020
Ty89-A:	-----	-----	-----	-----	-----	.....c.....	1020

CONSENSUS:	ccayggc aactatccag	gggcctccg	tcccgtaacr	ctagtrgcct	acgaaaggat	1200
CEFF94-A:	t.....t.....	.....	.....	.....g.....	.....	1200
D6948-A:	c.....c.....	.....	.....	.....a.....	.....	1200

Proposed Amendment

Reply to Form PTO-948 dated 7/25/02
ANNOTATED SHEET SHOWING CHANGES~~FIG. 2C~~ (Continued) FIG. 2C

CONSENSUS: tgaactagca aagaacctgg tyacagaata cggccgattt gaccaggag ccatgaacta 1320
 CEF94-A:
 D6948-A:
 TY89-A:

CONSENSUS: cacaaaattg atactgatgt agagggaccgg tcttggcattc aagaccgtmt ggccaaacaag 1380
 CEF94-A:
 D6948-A:
 TY89-A:

CONSENSUS: ggagttacact gactttcggy artacttcattt ggaggtggcc gacctaact ctccccctgaa 1440
 CEF94-A:
 D6948-A:
 TY89-A:

CONSENSUS: gattgcggaa gcattyggct tcaaagacat aatccgggcc mtaaggagga tagctgtgcc 1500
 CEF94-A:
 D6948-A:
 TY89-A:

CONSENSUS: ggttgtctcy acaytgttcc caccyggccgc tc(cccttagcc catgcaatttg gggaaagggtgt 1560
 CEF94-A:
 D6948-A:
 TY89-A:

CONSENSUS: agactacactg ctggccgatg aggcacaggc tgcttcagga actgctcgag ccgcgtcagg 1620
 CEF94-A:
 D6948-A:
 TY89-A:

CONSENSUS: aaaagcaaga gctgcctcag gccgcataag qcagctract ctcgcggccg acaagggtta 1680
 CEF94-A:
 D6948-A:
 TY89-A:

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CONSENSUS:	cgaggtagtc	gcgaatctr	tycagggcc	ccagaatccy	gtatcgacg	ggattctygc	1740
CEF94-A:	.....	.....	.....	.....	.....	t..	1740
D6948-A:	.....	.....	.....	.....	.....	c ..	1740
TY89-A:	.....	.....	.....	.....	.....	t ..	1740
CONSENSUS:	ttcacctgg	rtactcccg	gygcacacaa	cctcgactgc	gtgttragag	agggtgccac	1800
CEF94-A:	.....	.....	.....	.....	.....	a ..	1800
D6948-A:	.....	.....	.....	.....	.....	t ..	1800
TY89-A:	.....	.....	.....	.....	.....	g ..	1800
CONSENSUS:	gctattccct	gtggtyatya	cgacagtgg	agaygccatg	acacccaaag	caytgaacag	1860
CEF94-A:	.....	.....	.....	.....	.....	a ..	1860
D6948-A:	.....	.....	.....	.....	.....	c ..	1860
TY89-A:	.....	.....	.....	.....	.....	t ..	1860
CONSENSUS:	caaaatgtt	gctgtcattg	aaggcqgtcg	agaagayctc	caacccwt	ctcaaaggagg	1920
CEF94-A:	.....	.....	.....	.....	.....	c ..	1920
D6948-A:	.....	.....	.....	.....	.....	t ..	1920
TY89-A:	.....	.....	.....	.....	.....	a ..	1920
CONSENSUS:	atccttcata	cgaactctct	cyggacayag	agtctatgg	tatgtccag	atgggtact	1980
CEF94-A:	.....	.....	.....	.....	.....	t ..	1980
D6948-A:	.....	.....	.....	.....	.....	c ..	1980
TY89-A:	.....	.....	.....	.....	.....	t ..	1980
CONSENSUS:	tccactgg	actggagag	aytaccgt	kgtcccaata	gatgtatgtct	ggacgcacag	2040
CEF94-A:	.....	.....	.....	.....	.....	t ..	2040
D6948-A:	.....	.....	.....	.....	.....	t ..	2040
TY89-A:	.....	.....	.....	.....	.....	g ..	2040
CONSENSUS:	cattatgctg	tccaaagayc	ccataccctcc	tatttgtgg	aacagyygaa	aycttagccat	2100
CEF94-A:	.....	.....	.....	.....	.....	t ..	2100
D6948-A:	.....	.....	.....	.....	.....	c ..	2100
TY89-A:	.....	.....	.....	.....	.....	c ..	2100

FIG. 2E [Continued] FIG. 2E

CONSENSUS: agcttacatg gatgtttc gacccaaagt cccmatccat gtggcyatga cgggagccct 2160
 CEF94-A:a.....a.....t.....t.....
 D6948-A:c.....c.....c.....c.....
 TY89-A:c.....c.....c.....c.....

CONSENSUS: caaygcyyrt ggcgaggattg agaamgtragh ctttagaaagc accaagctcg ccactgcaca 2220
 CEF94-A: ...t..t.g.a..a..a..a..
 D6948-A: ...c..c.a.c..g..g..g..
 TY89-A:c.....c.....c.....c.....

CONSENSUS: ccgacttggc ctyaaggttgg ctggcccg wgcattygay gtraacaccg ggyccaaactg 2280
 CEF94-A:t.....t.....a.....c.t ..a.....
 D6948-A:c.....c.....t.....t.c ..g.....
 TY89-A:c.....c.....t.....t.c ..g.....

CONSENSUS: ggcracgtt atcaaacgtt tycctcacaa tccmcgmjac tggacaggy tmccytacct 2340
 CEF94-A: ...a....c ..c.....a..a..a..a..
 D6948-A: ...g....t ..t.....a..a..a..a..
 TY89-A:c.....c.....c.....t ..a..c..

CONSENSUS: caacctwccm tayctyccac cmamwgwgg acgycagtwc sayctkgccm tggchgchtc 2400
 CEF94-A:a..a ..c..t...c..at..a..a..
 D6948-A:t..a ..c..t...c..at..a..a..
 TY89-A:t..c ..t..c...a.ca..t..a..c..

CONSENSUS: mgagttcaaa gagaccccmg aactcgarrr ygcgttsmgw gcmatggamg cwgcwgcmma 2460
 CEF94-A: a.....c.....c.....a.....a.....a..
 D6948-A: a.....c.....c.....a.....a.....a..
 TY89-A: c.....a.....a.....a.....a.....a..

CONSENSUS: cgtsgaccca ytrttccrmt cwgdctcmr bgtsttcatg tggtytggaaag araayggat 2520
 CEF94-A: ...g....c.a...aa. t..a...ag t..g....c.....
 D6948-A: ...g....c.g...aa. t..g...ag c..g....c.....
 TY89-A: ...c....t.g...gc. a..t..ca g..c....t.....a..c..

CONSENSUS:	tgttracygat atggcyaact tcgcmtctcg	cgacccgaac gcmcaymrga tgmrmaattt	2580
CEF94-A:	...g..t..c .....	...c..tc...	2580
D6948-A:	...g..t..t .....	...c..tc...	2580
TY89-A:	...a..c..c .....	...a..ca...	284
CONSENSUS:	ycthgcaaay gcwccmcarg cmggmagcaa	gtcgcaragr gccaagtayg gsacrgcwgg	2640
CEF94-A:	t..t....c ..a..a..a..a..c.....	a..g.....a..g.....c..g..a..a..	2640
D6948-A:	t..c....c ..a..a..a..a..c.....	a..a.....a..a..c..g..a..a..	2640
TY89-A:	c..a....t ..t..c..q..c..a.....	g..g.....g..g..t..c..g..t..	344
CONSENSUS:	ctacggaggtg gagggcymrg gccccacdcc	agargargca cagagggara aaggacacacg	2700
CEF94-A:	.....tc..g .....	.....a..g..a...a..a..	2700
D6948-A:	.....cc..g .....	.....t..g..a...a..a..	2700
TY89-A:	.....ta..a .....	.....g..a..g...g..g..	404
CONSENSUS:	gatctcmaag aagatggara cbatggcat	ctacttygca acaccrgaaat gggttagcact	2760
CEF94-A:	.....a .....	.....g..c...t...a..	2760
D6948-A:	.....a .....	.....g..t...a..	2760
TY89-A:	.....c .....	.....a..g...c..g..	464
CONSENSUS:	caayggcac cgrggsccaa gccccggcca	gctvaaggta tggcaraaca camgagaat	2820
CEF94-A:	.....t .....	.....a..g...a..g...c..	2820
D6948-A:	.....t .....	.....g..g...g..c..	2820
TY89-A:	.....c .....	.....a..c...c..a..	524
CONSENSUS:	accdgahccm aacgaggact aycyagacta	ygtgcaygcr gagaagagcc gtttggcrtc	288
CEF94-A:	.....g..c..a .....	.....t..t..a	288
D6948-A:	.....t..t..a .....	.....c..t..a	288
TY89-A:	.....a..a..c .....	.....c..c..t..c..g	584
CONSENSUS:	agaagaacar rtcytaaggc agcyacgtc	gatctacgg gctccaggac aggwgarc	294
CEF94-A:	.....a..a..c .....	.....t..t..a	294
D6948-A:	.....a..a..c .....	.....t..t..a	294
TY89-A:	.....g..g..t .....	.....c..t..a	644

FIG. 26

CONSENSUS:	acccaaaggc	aatcaaccatg	rgtcttatgaa	grcggtggcc
CEF94-A:	.....t.....	.....a.....	.....a.....	.....a.....
D6948-A:	.....c.....	.....c.....	.....c.....	.....c.....
TY89-A:	.....c.....	.....c.....	.....g.....	.....t.....
CEF94-A:	a.....a.....	a.....a.....	t.....t.....	.....
D6948-A:	c.....a.....	a.....a.....	t.....c.....	.....
TY89-A:	a.....g.....	g.....g.....	c.....c.....	.....
CONSENSUS:	maaccargar	cagatgaarg	ayctgcctcyt	gactgcgtat
CEF94-A:	.....a.....	.....a.....	.....a.....	.....a.....
D6948-A:	.....a.....	.....a.....	.....a.....	.....a.....
TY89-A:	.....a.....	.....g.....	.....g.....	.....g.....
CONSENSUS:	caggcggtct	cyaccaaaggc	cmaagccaaa	acccaaatgt
CEF94-A:	.....t.....	.....t.....	.....c.....	.....a.....
D6948-A:	.....c.....	.....c.....	.....c.....	.....a.....
TY89-A:	.....c.....	.....c.....	.....a.....	.....t.....
CONSENSUS:	wcggtggcc	cgctggatca	ggrcgbgtctc	tgaygaggac
CEF94-A:	t.....	.....	.....a.c..	.....t.....
D6948-A:	t.....	.....	.....g.t..	.....t.....
TY89-A:	a.....	.....	.....a.g..	.....c.....
CONSENSUS:	gtctccgac	accaccccg	caggygtgga	caccaattmr
CEF94-A:	.....	.....	.....t.....	.....
D6948-A:	.....	.....	.....c.t..	.....ta..
TY89-A:	.....	.....	.....c.t..	.....ct..
CONSENSUS:	ggatccgttc	gcgggtcccc	kmmtaswrm	atycsaaatt
CEF94-A:	.....	.....	.....cg..	.....cg..
D6948-A:	.....	.....	.....cg..	.....cg..
TY89-A:	.....	.....	.....aa..	.....t.g..
CONSENSUS:	3000	3000	3000	3000
CEF94-A:	3000	3000	3000	3000
D6948-A:	3060	3060	3060	3060
TY89-A:	704	764	764	764
CONSENSUS:	3060	3060	3060	3060
CEF94-A:	3120	3120	3120	3120
D6948-A:	3120	3120	3120	3120
TY89-A:	824	824	824	824
CONSENSUS:	3180	3180	3180	3180
CEF94-A:	3180	3180	3180	3180
D6948-A:	3180	3180	3180	3180
TY89-A:	884	884	884	884
CONSENSUS:	3240	3240	3240	3240
CEF94-A:	3240	3240	3240	3240
D6948-A:	3240	3240	3240	3240
TY89-A:	944	944	944	944
CONSENSUS:	3260	3260	3260	3260
CEF94-A:	3260	3260	3260	3260
D6948-A:	3260	3260	3260	3260
TY89-A:	964	964	964	964

FIG. 23. FIG. 3A

CONSENSUS: gctggacarg aytggaaaga actcytgatc ccttaargt y tggatccs 240
CEF94-B: a c t a . . . t g 240
D6948-B: g t c i g . . c c 240

CONSENSUS: ccacgggtctc trccygaaa · tgaggagtt gagaccgayc aaataactccc wgacyttagcw 360
CEF94-B:g.....c.....c.....a.....t.....a 360
D6948-B:a.....t.....t.....t.....c.....t 360

CONSENSUS: tggatgmgc agatagar gg rgttgttta aaaccmacyc tatctctccc yattggagay 420
CEFF94-B:c.a.....a..g.....c.t.....t.....t 420
D6948-B:a.g.....g..a.....a.c.....c.....c 420

CONSENSUS: caggagtact tcccwaarta ctacccaaaca caycgcccka gcaaggaraa gccccaatgcg 480
CEF94-B:a.....g.....t.....t.....g.....
D6948-B:t..a.....c....g.....a..

FIG. 3B

CONSENSUS:	tacccgcmg	ayatcgccayt	actcaaggcag	atgatyttacy	tgtttctccca	ggttccmagg	540
CEF94-B:	.....a.	.c.....c.	.....c.	.....t..c.	.....t..c.	.....a...	540
D6948-B:	.....c.	.t.....t.	.....t.	.....c..t.	.....c..t.	.....c...	540
CONSENSUS:	gccammgakr	rcctiwaarga	tgargtmaccc	ctmytraccc	aaaacatwag	rgayaargcc	600
CEF94-B:	....ac..gg	g...a..g..	...a..a...	..ct..g...	....a..	g..c..g..	600
D6948-B:	....ca..ta	a...t..a..	....g..c..	..ac.a...	....t..a..	....a..t..a..	600
CONSENSUS:	tayggratg	ggacctacat	gggacargcm	acymgacttg	tkgcyatgaa	rgaggttygcc	660
CEF94-B:	..t..a..	....a..a..	...a..tc..	..g..c..	....g..c..	....c..	660
D6948-B:	..c..g..	....g..c..	...ca..	..t..t..	....a..t..	....t..a..	660
CONSENSUS:	actggragaa	acccaaaca	rgatccctcta	aagcttgggt	acacyttga	gagcatmngcs	720
CEF94-B:	....a..	....a..	....g..	....t..	....t..	....c..g	720
D6948-B:	....g..	....a..	....a..	....c..	....c..	....a..c	720
CONSENSUS:	cagctacttg	acatcacwyt	accggtaggc	ccaccgggtg	aggatgacaa	gccctgggtr	780
CEF94-B:	....	....	....ac..	....	....	....g..	780
D6948-B:	....	....	....tt..	....	....	....a..	780
CONSENSUS:	ccactcacaa	grgtgccgtc	amggatgttg	gtwctgacgg	gmgacgtaga	tggsgamttt	840
CEF94-B:	....	....a..	....c..	....a..	....a..	....c..c..	840
D6948-B:	....	....g..	....a..	....t..	....c..	....g..a..	840
CONSENSUS:	gagggttgarq	aytacccccc	caaaatcaac	ctcaagttcat	caagtggact	rccmtatgtw	900
CEF94-B:	....a..	.t.....	....	....	....	....a..a..	900
D6948-B:	....g..	.c.....	....	....	....	....g..c..t	900
CONSENSUS:	ggtcgcacca	aaggagarac	wattggsgag	atgatagcya	tmtcraacca	gtttctymga	960
CEF94-B:	....	....g..	....a..	....c..	....t..	....c..a..	960
D6948-B:	....	....a..	....t..	....g..	....c..	....a..g..	960

FIG. 28 ~~Contd.~~

FIG. 3C

CONSENSUS:	gagcttatcar	crctgytgaa	gcarggtgca	gggacaarg	ggtcraacaa	gaagaaggctr	1020
CEF94-B:	.....a	.....t	.....a	.....a	.....g	.....a	1020
D6948-B:	.....g	.....c	.....g	.....a	.....a	.....g	1020
CONSENSUS:	ctcagcatgy	taagtgacta	ytggtaacta	tcatgyggc	ttttgttcc	maaggctgar	1080
CEF94-B:	.....t	.....c	.....t	.....c	.....a	.....a	1080
D6948-B:	.....c	.....c	.....c	.....t	.....c	.....g	1080
CONSENSUS:	aggtacgaca	aagyacatg	gctcaccaag	acccgkaaca	tatggtcagc	tccatcmcca	1140
CEF94-B:	.....t	.....t	.....g	.....g	.....c	.....c	1140
D6948-B:	.....c	.....c	.....t	.....t	.....a	.....a	1140
CONSENSUS:	acacacctca	tgatctcwat	gatmacctgg	cccggtatgt	ccaayagccc	aaayaacgtg	1200
CEF94-B:	.....t	.....t	.....c	.....c	.....t	.....t	1200
D6948-B:	.....a	.....a	.....a	.....a	.....t	.....c	1200
CONSENSUS:	ttgaacattg	argggtgtcc	rtcactctac	aarttcaacc	cgttyagagg	wgggytraac	1260
CEF94-B:	.....a	.....a	.....a	.....g	.....c	.....a	1260
D6948-B:	.....g	.....g	.....g	.....g	.....t	.....t	1260
CONSENSUS:	aggatcgtsq	agtggatawt	ggcycggaw	gaacccaagg	cytttgtata	tgckgacaac	1320
CEF94-B:	.....c	.....t	.....a	.....a	.....tc	.....g	1320
D6948-B:	.....g	.....a	.....t	.....t	.....ct	.....t	1320
CONSENSUS:	atatacattg	tycactcmaa	cacgtgtac	tcaattgacc	tagagaagg	tgaggcaaac	1380
CEF94-B:	.....c	.....a	.....a	.....a	.....t	.....t	1380
D6948-B:	.....t	.....c	.....t	.....t	.....c	.....t	1380
CONSENSUS:	tgcackcgyc	aacacatgca	rgccgmatg	tactacatmc	tyaccagg	rtggctcmgay	1440
CEF94-B:	.....t	.....a	.....a	.....a	.....c	.....a	1440
D6948-B:	.....g	.....t	.....g	.....c	.....c	.....t	1440
CONSENSUS:	aacgggacc	cmatgttcaa	tcaracatgg	gccacccatttgc	csatgaacat	tgccccwgct	1500
CEF94-B:	.....c	.....a	.....a	.....a	.....c	.....c	1500
D6948-B:	.....t	.....c	.....g	.....g	.....g	.....a	1500

~~FIG. 2B~~ [Continued] FIG. 3D

CONSENSUS: ctagtktgtgg actcatactrtg yctgtatwg aaccatkcaratyaagacmtatggtaaggc 1560
CEF94-B:g....g....a....t....a....t....a....t....a....a....t....a....a....a....
D6948-B:t....t....a....t....t....t....t....t....a....a....t....a....a....a....
CONSENSUS: agyggaaatg cagccacstt catcaacaac cayctyytka gcacscctwgt gctwgaccag 1620
CEF94-B: ...c.....g..c.....g..c.....ct.g.....t....t....c.t....c.t....a....a....
D6948-B: ..t.....c.....c.....t....tc.t....c.t....a....a....a....a....1620
CONSENSUS: tggAACytga tgarrcarcc yagwccagac agcgargagt tcaartcaat tgargacaag 1680
CEF94-B:c...ga..g..c.a.....g.....a.....a.....a.....a.....a.....a.....
D6948-B:t...ag..a..t..t...a....a.....g.....g.....g.....a.....1680
CONSENSUS: ctrggyatca acttyaagat tgagagggcc attgatgaya tyagggcaa gctsagacag 1740
CEF94-B: ..a..t....t.....t.....t.....t.....t.....t.....t.....
D6948-B: ..g..c....c.....c.....c.....c.....c.....c.....c.....1740
CONSENSUS: cttgtccycc ttgcacaaacc agggtacctg agtggrggg tygaaccaga rcaayccagc 1800
CEF94-B:t..a.....a.....a.....a.....a.....a.....a.....
D6948-B:c..a.....a.....a.....a.....a.....a.....a.....1800
CONSENSUS: ccaactgtwg agctkgacct actmgttg tcwgwcacwt acagaaaga tctyggatc 1860
CEF94-B:t.....a....a....a....a....a....a....a....a....
D6948-B:a....g....c....a....t....a....t....a....t....1860
CONSENSUS: tatgtgccgg tgcttgacaa ggaacgcyta ttgtgtctg ctgcgttatcc caargrgta 1920
CEF94-B:c.....c.....t.....t.....c.....c.....c.....
D6948-B:t.....t.....c.....c.....c.....c.....a.....g....1920
CONSENSUS: gagaayaara gyctcaartc caargtgygg atcgaggcarg catacaargt wgtcaggtay 1980
CEF94-B:c..g..t....g....a..c....a....g.....g....a....t....1980
D6948-B:t..a..c....a....g....t....a....a....a....a....t....c....1980
CONSENSUS: gagggcgttga ggttggtagg tggtttggAAC tacccactcc tgaacaaaggc ytgcagaay 2040
CEF94-B:c.....c.....c.....c.....c.....c.....c.....
D6948-B:t.....t.....t.....t.....t.....t.....c....2040

FIG. 23 [REDACTED] FIG. 3E

CONSENSUS: aaygcargyg cmgctcgccg gcatctggag gccaaagggtt tccccrtcga yagttccctm 2100
 CEF94-B: ..c...g.c. .c..... .a..... .a..... .a..... .a..... .a..... .a..... .a.....
 D6948-B: ..t...a.t. .a..... .a..... .a..... .a..... .a..... .a..... .a..... .a.....

CONSENSUS: gccgagtggc cwgagytgtc mgagttcgww gargcyytccaa aaggcttcgt 2160
 CEF94-B:t...c... a.....t ..g..c.... .t.....t.....t.....t.....t.....t.....t.....
 D6948-B:a...t... c.....a ..a..t... .a.....a.....a.....a.....a.....a.....a.....

CONSENSUS: acmgttaacay ckgagagccct mgccgaaactk aacarrccag tacccccac rccyccaaat 2220
 CEF94-B: ..c.....t ..t...a.....a.....g.....ag.....g.....g.....c.....a.....t.....
 D6948-B: ..a.....c ..g.....c.....c.....t.....ga.....t.....t.....t.....t.....t.....

CONSENSUS: gtcaaacagac cagtcaacac yggkgrctm aaggcgtca gcaayggcct caagaccggy 2280
 CEF94-B:t.....t.....t.....t.....t.....t.....t.....t.....t.....t.....t.....t.....
 D6948-B:c.....c.....c.....c.....c.....c.....c.....c.....c.....c.....c.....c.....

CONSENSUS: cggtayagra aygaaggccgg actragtggy ctgcgtcctyc tagccacmgc mmgmaggccgw 2340
 CEF94-B: ..c..g. ..c.....g.....t.....t.....t.....t.....a..a.....t.....t.....a.....
 D6948-B: ..t..a. ..t.....a.....a.....a.....a.....a.....a.....a.....a.....a.....a.....

CONSENSUS: ctrcargayg cagtyaaggc caaggcagar gccgagaaac tccacaaggc yaagccmgay 2400
 CEF94-B: ..g..a..t.t.....a.....a.....a.....a.....a.....a.....a.....a.....
 D6948-B: ..a..g..c.c.....c.....c.....c.....c.....c.....c.....c.....c.....

CONSENSUS: gaccggatg cagactgggtt ygaamgrtca gaaacyctgt cagacctkct ggagaaagcc 2460
 CEF94-B:c.....a.....a.....t.....t.....t.....t.....t.....t.....t.....t.....
 D6948-B:t.....t.....t.....c.....g.....g.....g.....g.....g.....g.....

CONSENSUS: gacatygcca gcaagggtcgc ycactcagca ctcgtggaaa caaggcgc ycttgaagcr 2520
 CEF94-B:c.....c.....c.....t.....c.....a.....a.....a.....a.....a.....a.....
 D6948-B:t.....t.....t.....t.....t.....t.....t.....t.....t.....t.....t.....

CONSENSUS: gtycagtcta cytcmgtgtac cacycmaag taccaggarg tyaagaacc acagaccgccc 2580
 CEF94-B: ..t...g. .t..c....t..c.....a.....c.....a.....a.....a.....a.....
 D6948-B: ..c....a. ..c..a.....c..a.....c..a.....c..a.....c..a.....c..a.....

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Reply to Form PTO-948 dated 7/25/02
ANNOTATED SHEET SHOWING CHANGES

FIG. 3 F

CONSENSUS:	tccaaaccccg	ttgttggct	ccacctgccc	gccaaggagrg	ccaccggtgt	ccaggamgct	2640
CEF94-B:	.....	.....	.....	.....a.	.....	.....c..	2640
D6948-B:	.....	.....	.....	.....g.	.....	.....a..	2640
CONSENSUS:	cttctcgag	caggracgag	cagaccaatg	ggatggagg	cyccaaacacg	gtccaaagaac	2700
CEF94-B:	.....	.....	.....a.	.....	.....c.	.....	2700
D6948-B:	.....	.....	.....g.	.....	.....t.	.....	2700
CONSENSUS:	gccgtgaaaa	tggccaaamg	ggggcaacgc	aaaargaga	gccatgtatgg	g	2760
CEF94-B:	.....	.....	.....c.	.....g.	.....	c.	2760
D6948-B:	.....	.....	.....a.	.....a.	.....t.	.....	2760
CONSENSUS:	gaaccactca	agaaggagac	actaayccca	gaccggat	ccccggctt	cgccctgcggg	2820
CEF94-B:	.....	.....	.....	.....t.	.....	.....	2820
D6948-B:	.....	.....	.....	.....c..	.....	.....	2820
CONSENSUS:	ggccccc						
CEF94-B:	.....						2827
D6948-B:	.....						2827

FIG. 3A

~~FIG. 3A~~ ~~FIG. 3C~~ FIG. 4B

Serial No. 10/046,671; Filed 1/14/2002

Proposed Amendment
Reply to Form PTO-948 dated 7/25/02
ANNOTATED SHEET SHOWING CHANGES

CONSENSUS: DFRYFMEVA DLNSPLIKIAG AFGFKDIIRA .RRIAVPVVS TLFPPAAPLA HAIGEVDYL
CEF94-PP: I 480
D6948-PP: L 480
TY89-PP: D 480

CONSENSUS: LGDEAQAAASG TARAASGKAR AASGRIRQLT LAADKGYEVV ANLFQVPQNP VVDGILASPQ

CEF94-PP: 540
D6948-PP: 540
TY89-PP: 540

CONSENSUS: .LRGAHNLD C VLREGATLFP WITTEDAM TPKALNSKMF AVIEGVREDL QPPSORGSFI

CEF94-PP: V 600
D6948-PP: I 600
TY89-PP: 600

CONSENSUS: RTLSGHHRVYG YAPDGVLPLE TGRDYTVVPI DDVWDDSIML SKDPPIPIVG NSGNLAIAYM

CEF94-PP: 660
D6948-PP: 660
TY89-PP: 660

CONSENSUS: DVFRPKVPIH VAMTGALNA. GEIE VSFRS TKLATAHRLG LKLAGPAGFD VNTG.NWATF

CEF94-PP: C K 720
D6948-PP: Y N P 720
TY89-PP: D S 720

CONSENSUS: IKREPHNPRD WDRLPYLNLP YLPPNAGROY HLAMAASEFK ETPELESAVR AMEEAANVDP

CEF94-PP: 780
D6948-PP: 780
TY89-PP: T F L D D 780
..... D 58

CONSENSUS: LFQSALSVM WLEENGIVTD MANEALSDPN AHRMRNFLAN APQAGSKSQR AKYGTAGYGV

CEF94-PP: 840
D6948-PP: 840
TY89-PP: R Q K 840
..... K 118

~~FIG. 3C~~ FIG. 4C

Serial No. 10/046,671; Filed 1/14/2002
Proposed Amendment
Reply to Form PTO-948 dated 7/25/02
ANNOTATED SHEET SHOWING CHANGES

CONSENSUS: EARGPTPEEA QREKDTRISK KMETMGIYFA TPEWVALNGH RGPSPGQLKY WQNTREIPDP 900
CEF94-PP: 900
D6948-PP: 900
TY89-PP: E. 178

CONSENSUS: NEDYLDYVHA EKSRLASEEQ ILRAATSIYG APGQAEPQA FIDEVAKVYE INHGRGPNQE 960
CEF94-PP: 960
D6948-PP: 960
TY89-PP: P. V. R. 238

CONSENSUS: QMKDLLTAM EMKHRNPRRA PPKPCKPKNA PTQRPPGRIG RWIRTVSDED LE 1012
CEF94-PP: L. 1012
D6948-PP: A. 1012
TY89-PP: S. 290

FIG. 2A SA

CONSENSUS:	MSD.FNSPQAA RS.ISAAFGI KPTAGQDVVE LLIPKVVWPP EDPLASPSRL AKFLRENGYK	60
CEF94-VP1:	I.....T.....	60
D6948-VP1:	V.....K.....	60
CONSENSUS:	IQPRSLPEN EEFYETDQILP DIAWMRQIEG AVIKPTLISLP IGDOEYFPKY YPTHRSKEK	120
CEF94-VP1:	V.....	120
D6948-VP1:	I.....	120
CONSENSUS:	PNAYPPDIAL LKQMIYLFQ VPEA...LKD EVTLTONIR DKAYGSGTYM GQATRLVAMK	180
CEF94-VP1:	.....NEG.....	180
D6948-VP1:	.....TDN.....	180
CONSENSUS:	EVATGRNPNK DPLKLGYTFE SIAQLLDITL PVGPPGEDDK PWVPLTRVPS RMLVLTGDVD	240
CEF94-VP1:	.....	240
D6948-VP1:	.....	240
CONSENSUS:	G.FEVEDYLP KINLKSSSGL PYVGRTKGET IGEMIAISNQ FLRELS.LLK QGAGTKGSNK	300
CEF94-VP1:	D.....T.....	300
D6948-VP1:	E.....A.....	300
CONSENSUS:	KKLLSMLSDY WYLSCGILLFP KAERYDKSTW LTTRTRNIWSA PSPTHLMISM ITWPVMSNSP	360
CEF94-VP1:	.....	360
D6948-VP1:	.....	360
CONSENSUS:	NNVLNIEGCP SLYKFNPFRG GLNRIVEWI AP.EPKALVY ADNIYIVHSN TWYSIDLEKG	420
CEF94-VP1:	.....L.....E.....	420
D6948-VP1:	.....M.....D.....	420
CONSENSUS:	EANCTRQHMQ AAMYIILTRG WSDNGDPMFN QTWATFAMNI APALVVDSSC LIMNLQIKTY	480
CEF94-VP1:	.....	480
D6948-VP1:	.....	480
CONSENSUS:	GQGSIGNAATF INNHILLSTLV LDQWNLM.QP .PDSEEFKSI EDKLGINFKI ERSIDDIRGK	540
CEF94-VP1:	.....R.....R.....	540
D6948-VP1:	.....K.....S.....	540

FIG. 2B [Continued] FIG. 5B

CONSENSUS:	LRQLV.LAQP GYLGGVEPE Q.SPTVELDL LGWSATYSKD LGIYVPVLKD ERLFCSSAAYP	600
CEF94-VP1:	.....L.....S.....	600
D6948-VP1:	.....P.....	600
	.....P.....	600
CONSENSUS:	KGVENKSLKS KVIGIEQAYKV VRYEALRLVG GWNYPILLNKA CRNNAA.AARR HLEAKGFPLD	660
CEF94-VP1:	.....G.....	660
D6948-VP1:	.....S.....	660
	.....S.....	660
CONSENSUS:	EFLAEWSELS EFGEAFFEGFN IKLTVT.ESL AELN.PVPPK PPNVNRPVNT GGLKAVSNAL	720
CEF94-VP1:	.....S.....K.....	720
D6948-VP1:	.....P.....R.....	720
	.....P.....R.....	720
CONSENSUS:	KTGRYRNEAG LSGLVLLATA RSRLQDAVKKA KAEAELHKKS KPDDPDADWF ERSETLSDLL	780
CEF94-VP1:	.....	780
D6948-VP1:	.....	780
	.....	780
CONSENSUS:	EKADIASKVA HSALVETSDA LEAVQSTSVD TPKYPEVKNP QTASNPVVGL HLPAKRATGV	840
CEF94-VP1:	.....	840
D6948-VP1:	.....	840
	.....	840
CONSENSUS:	QAALLGAGTS RPMGMEEAPTR SKNAVMAKR RQRQKESRQ.	881
CEF94-VP1:	.....Q.....P.....	881
D6948-VP1:	.....Q.....P.....	879

FIG. 3C. 6

CONSENSUS:	MVSRDQTNDR	SDD.	PARSNP	TDCSVHTEPS	DANNRTGVHS	GRHP.	EAHSQ	VRDLQLQFDC	60
D6948-VP5:	.....	.....	E.....	.....	.....	.....	R.....	.....	60
CEF94-VP5:	.....	.....	K.....	.....	.....	.....	G.....	.....	60
CONSENSUS:	GGHRVVRANCL	FPW	PWLNCG	CSLHTAEQWE	LQVRSdapdc	PEPTGQLQLL	QASESESHSE	120	
D6948-VP5:	.....	.....	F.....	.....	.....	.....	.....	120	
CEF94-VP5:	.....	.....	I.....	.....	.....	.....	.....	120	
CONSENSUS:	VKHT.	WWRLC	TK.	HHKRRDL	PRKPE				145
D6948-VP5:	.....	P.....	.....	W.....	.....	.....	.....	145	
CEF94-VP5:	.....	S.....	.....	R.....	.....	.....	.....	145	

Serial No. 10/046,671; Filed 1/14/2002
 Proposed Amendment
 Reply to Form PTO-948 dated 7/25/02
 ANNOTATED SHEET SHOWING CHANGES

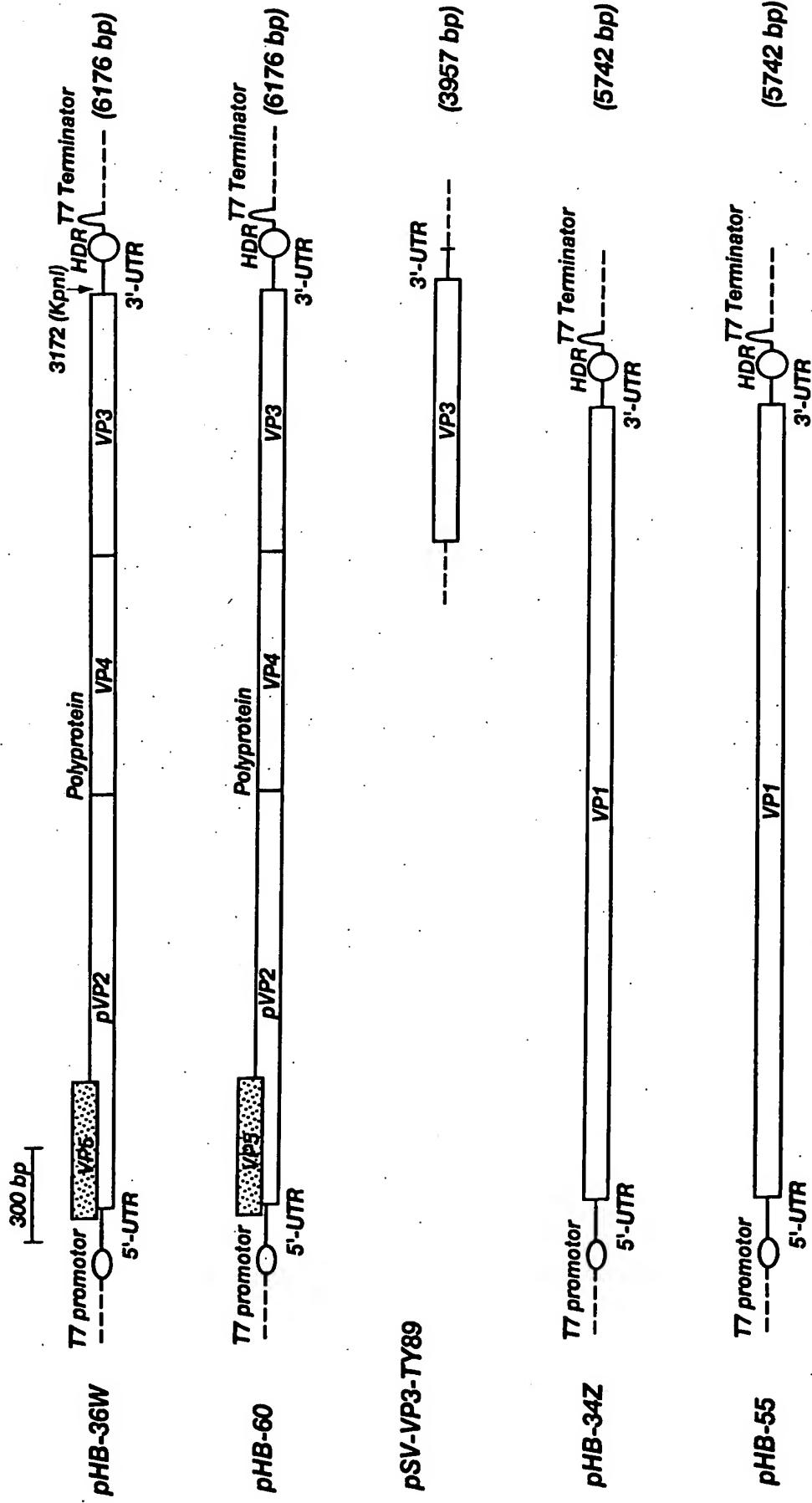


FIG. X

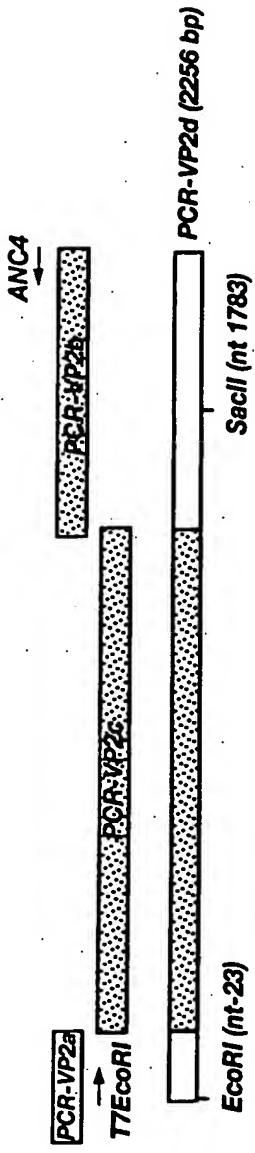
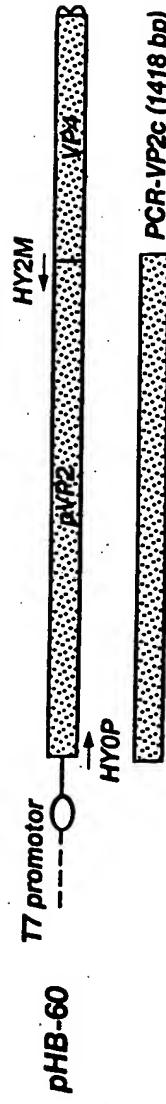
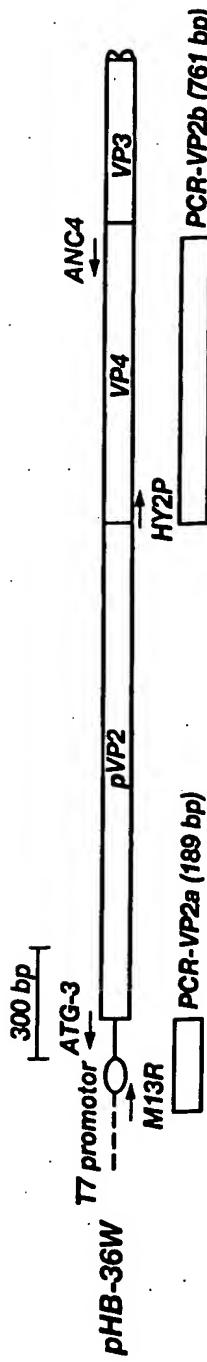


FIG. 5A 8A

Serial No. 10/046,671; Filed 1/14/2002
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 ANNOTATED SHEET SHOWING CHANGES

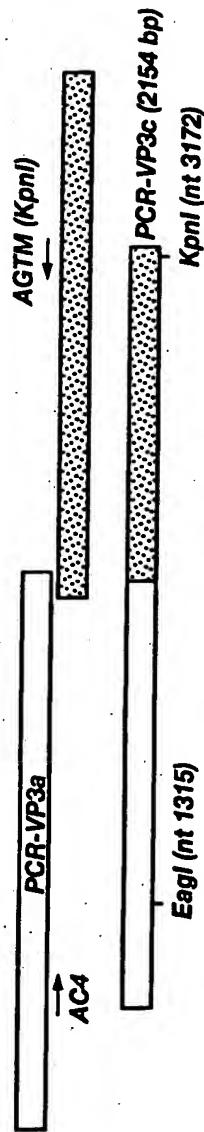
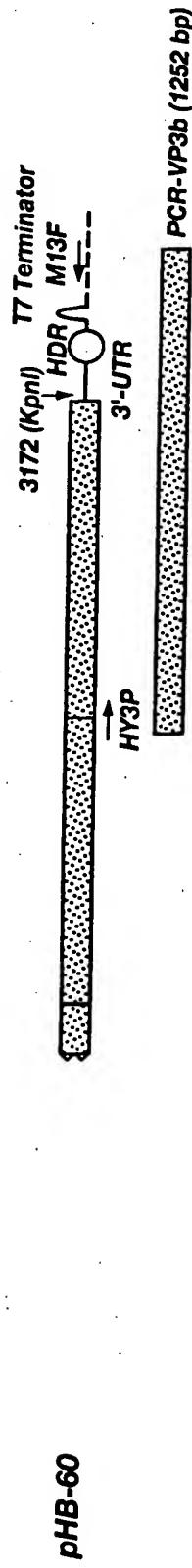
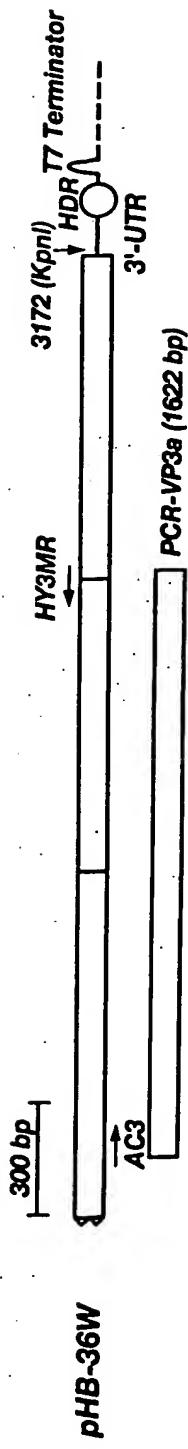


FIG. 5B 8B

Serial No. 10/046,671; Filed 1/14/2002
 Proposed Amendment
 Reply to Form PTO-948 dated 7/25/02
 ANNOTATED SHEET SHOWING CHANGES

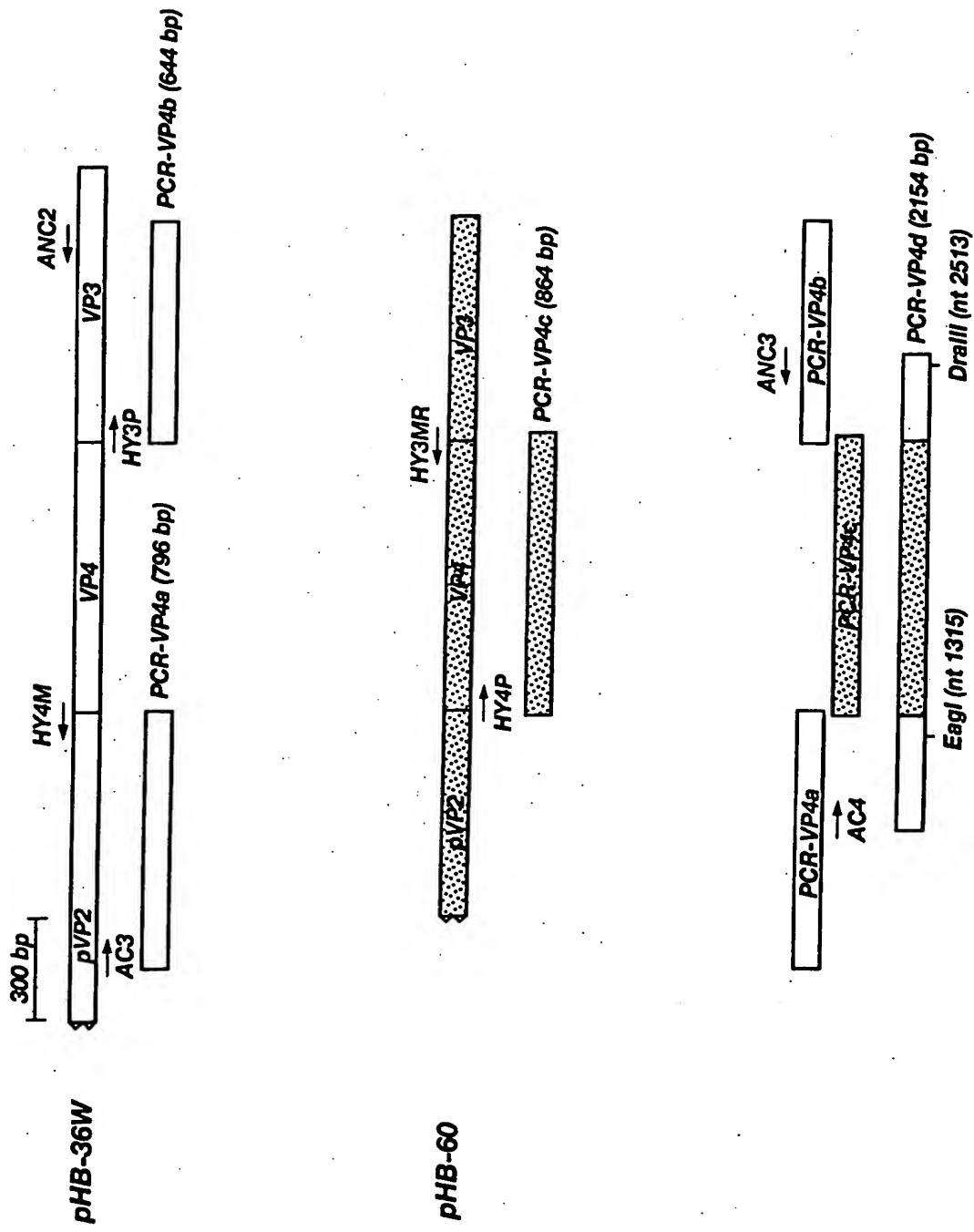


FIG. 5C 8C

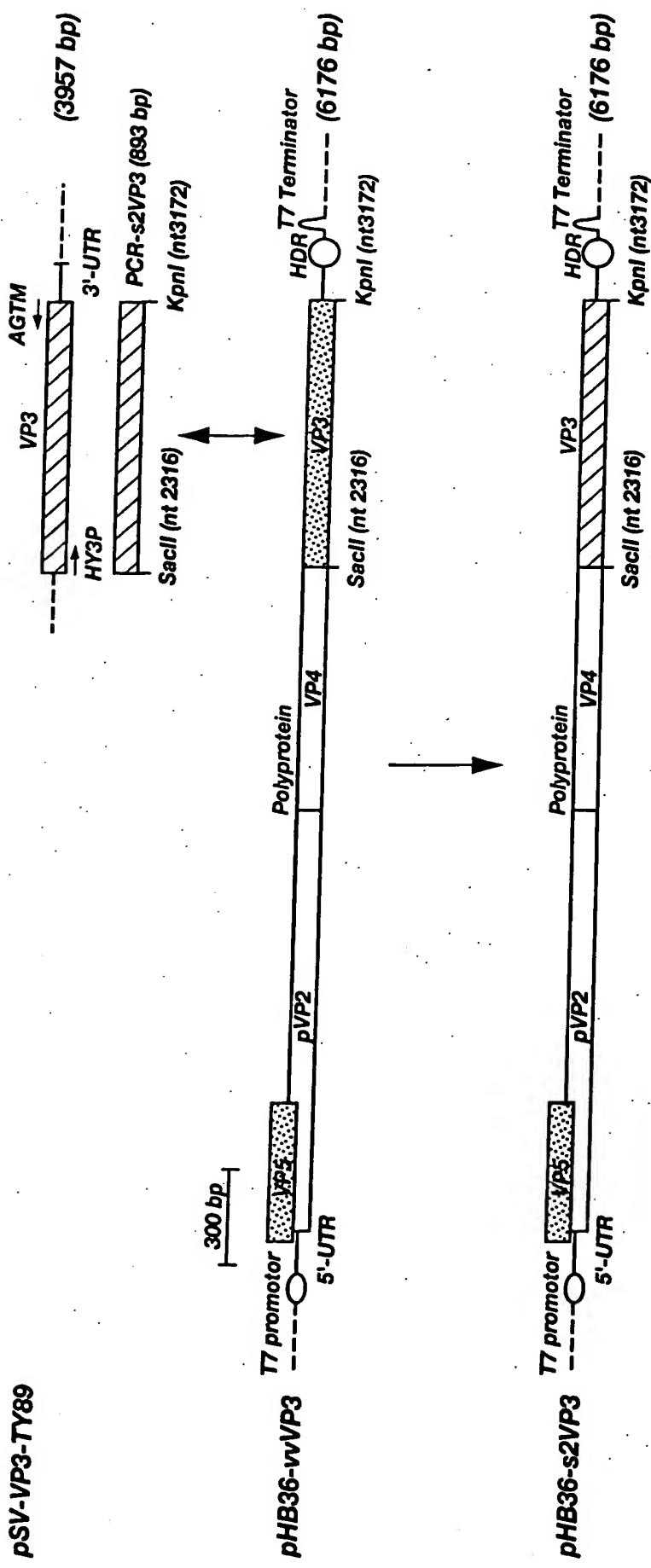


FIG. 5B & 8D

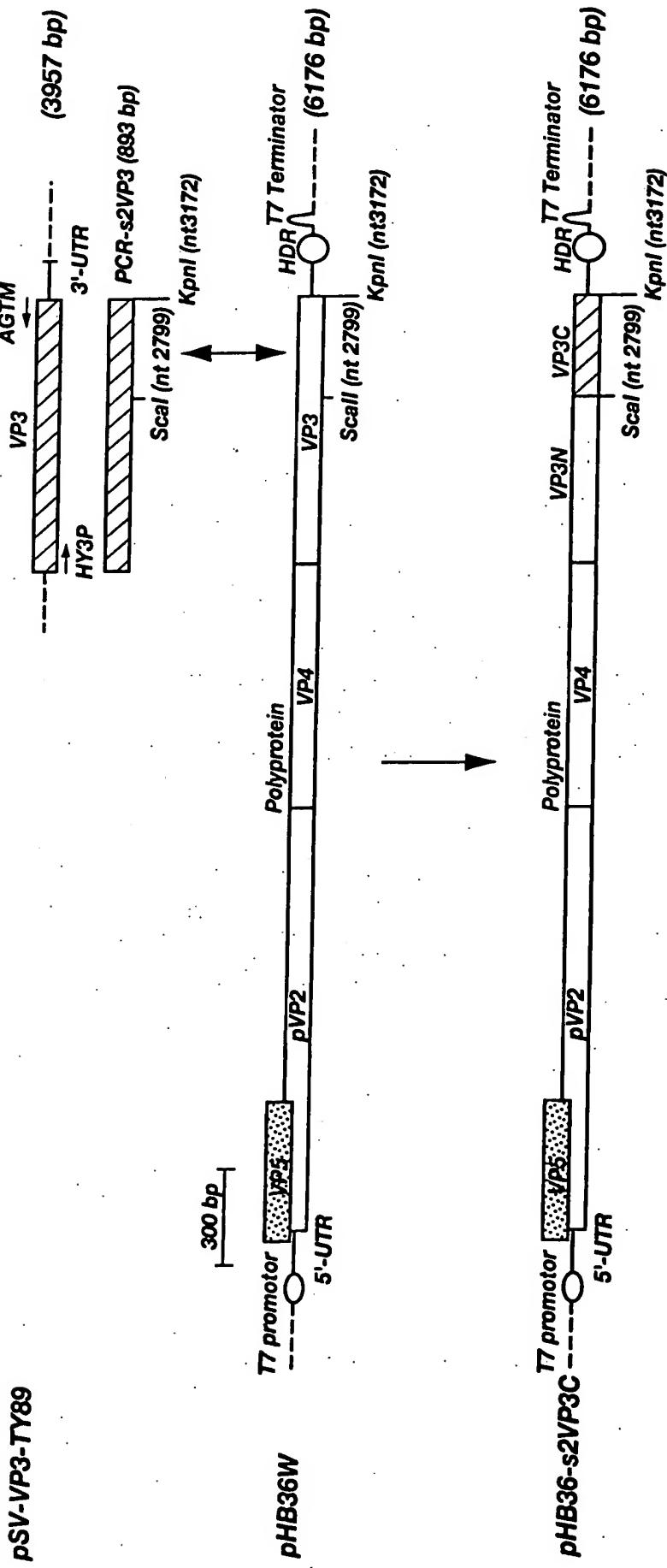


FIG. 3E 8E

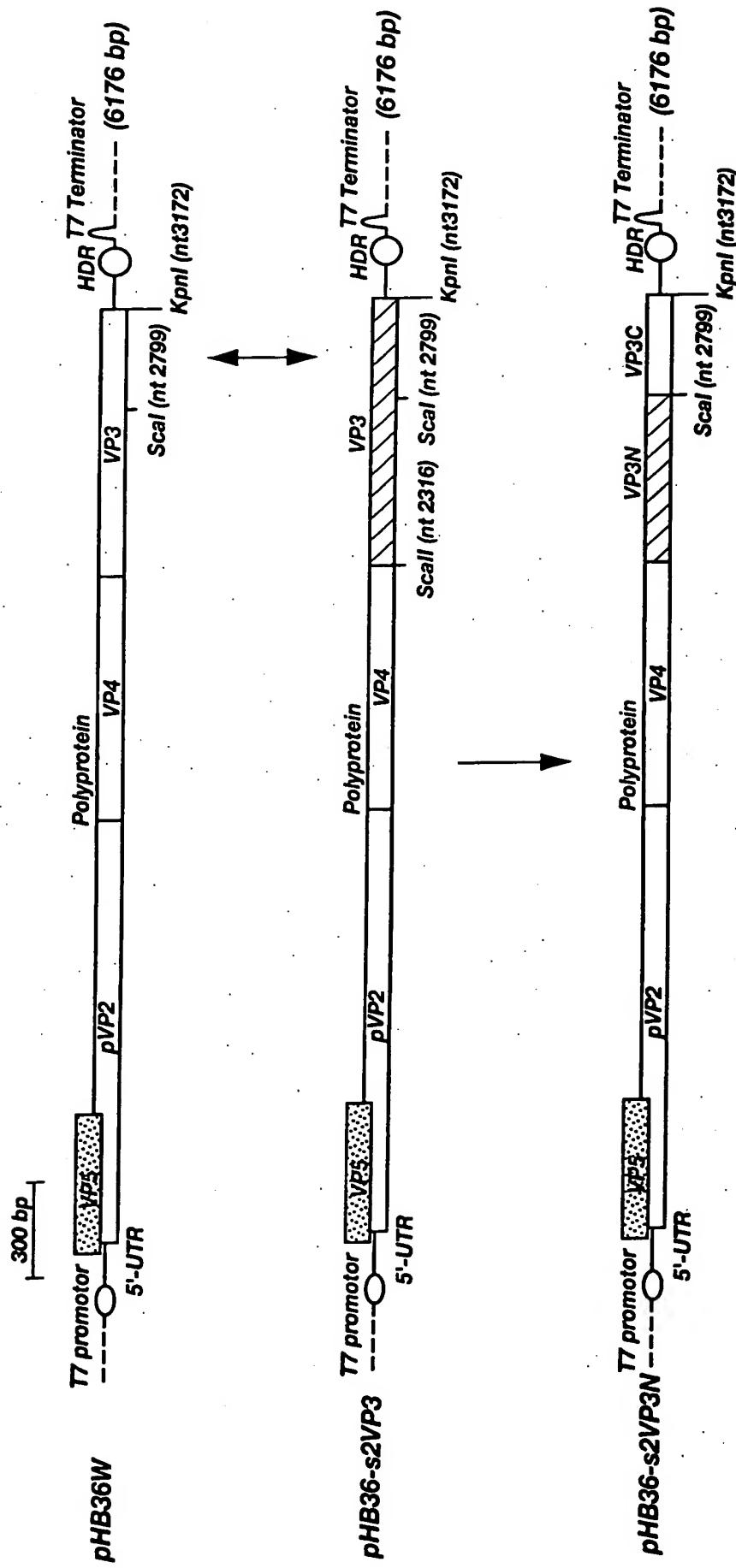


FIG. 5F 8F

Serial No. 10/046,671; Filed 1/14/2002
 Proposed Amendment
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 ANNOTATED SHEET SHOWING CHANGES

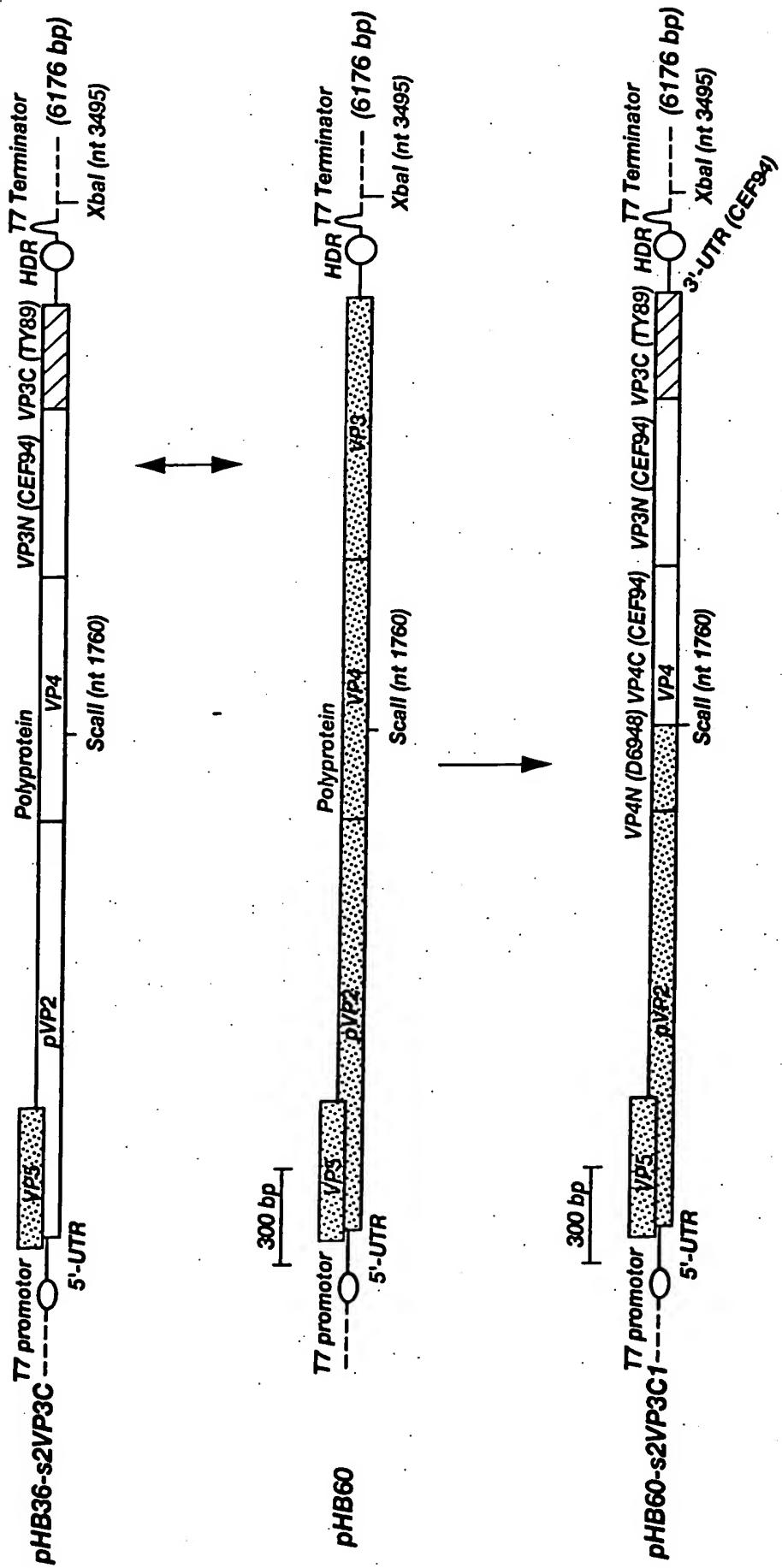


FIG. 5G 8G

FIG. 6-9

VP4 → VP3

SacII

CEF94-PP: LFQSALSVM WLENGIVTD MANFALSDPN AHRMRNFLAN APQAGSKSQR AKYGTAGYGV 840
TY89-PP: .R...Q.....K.....840

CEF94-PP: EARGPTPEEA QREKDTISK KMETMGIYFA TPEWVALNGH RGSPSPGQLKY WQNTREIPDP 900
TY89-PP: F 900

CEF94-PP:	NEDYLDYVHA	EKSRLASEEQ	ILRATSIYG	APGQAEPQQA	FIDEVAKVYE	INHGRGPNQE	960
TY89-PP:	P.....P.....	V.....V.....	R.....R.....				960

CEF94-PP: QMKDLLTAM EMKHRNPRRA LPKPKPKNA PTQRPPGRLG RWIRTVSDED LE
TY89-PP:P.....P.....S.....

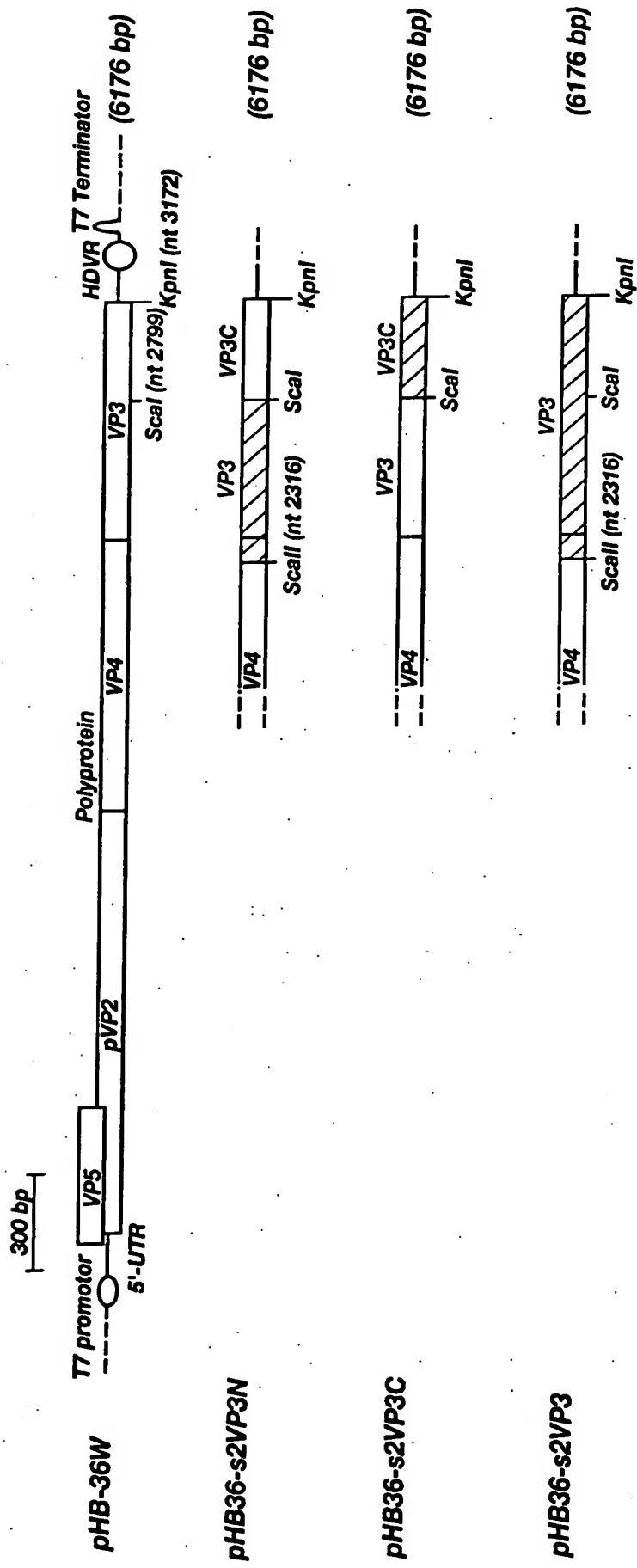


FIG. X 10

FIG. 8A 11A

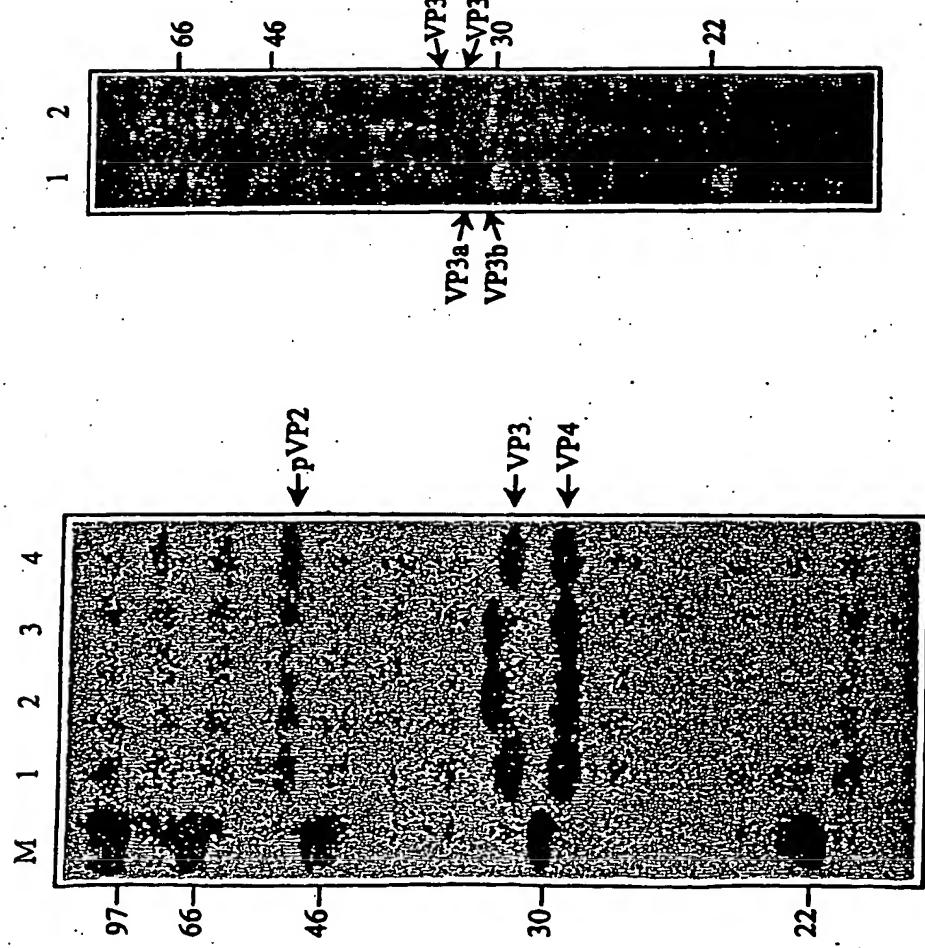


FIG. 8B 11B

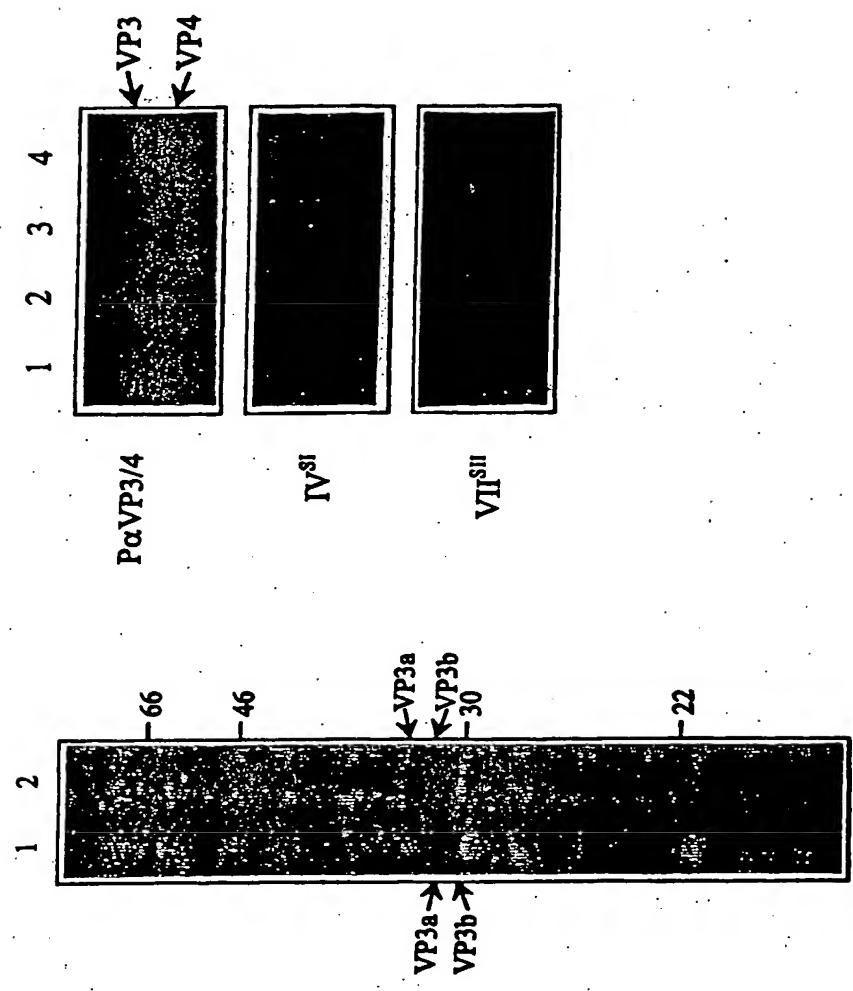
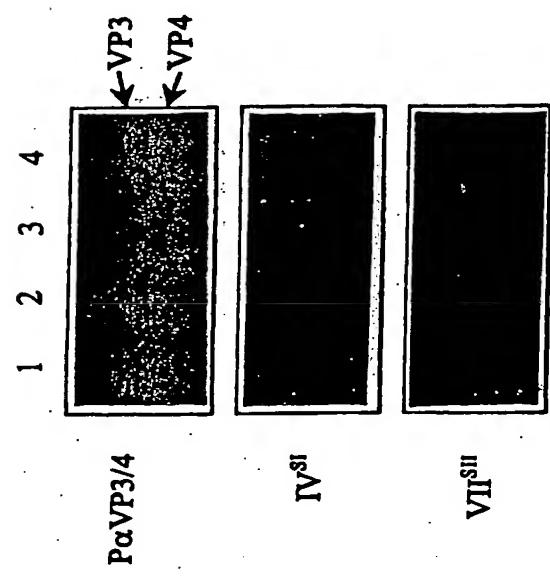


FIG. 8C 11C



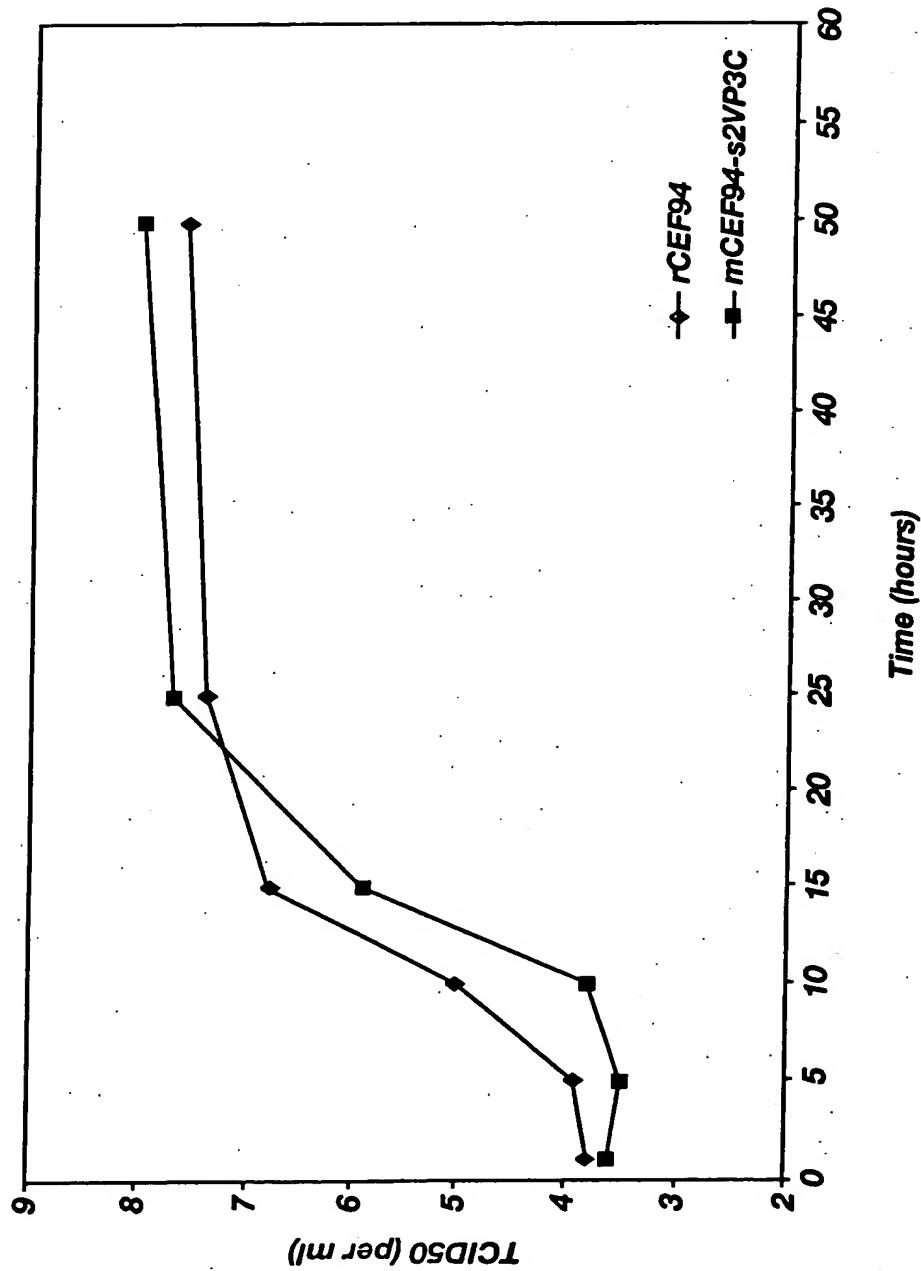


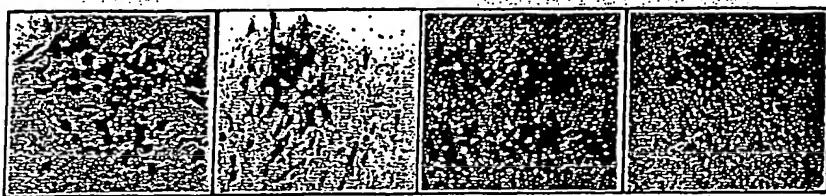
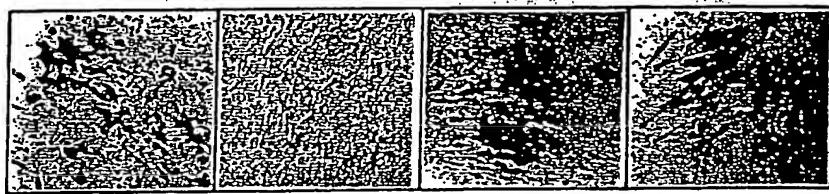
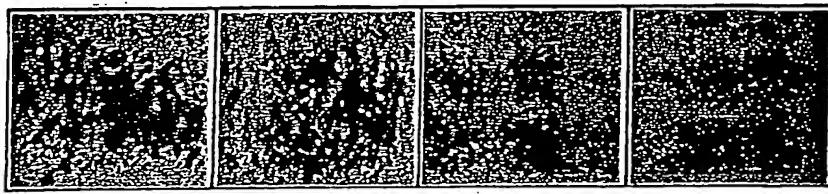
FIG. A 12

FIG. 10 13

9.7

VII^{SI}IV^{SI}I/G4^{SI}

rCEF94

mCDF94
-s2VP3mCEF94
-s2VP3NmCEF94
-s2VP3C

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 Reply to Form PTO-948 dated 7/25/02
 ANNOTATED SHEET SHOWING CHANGES

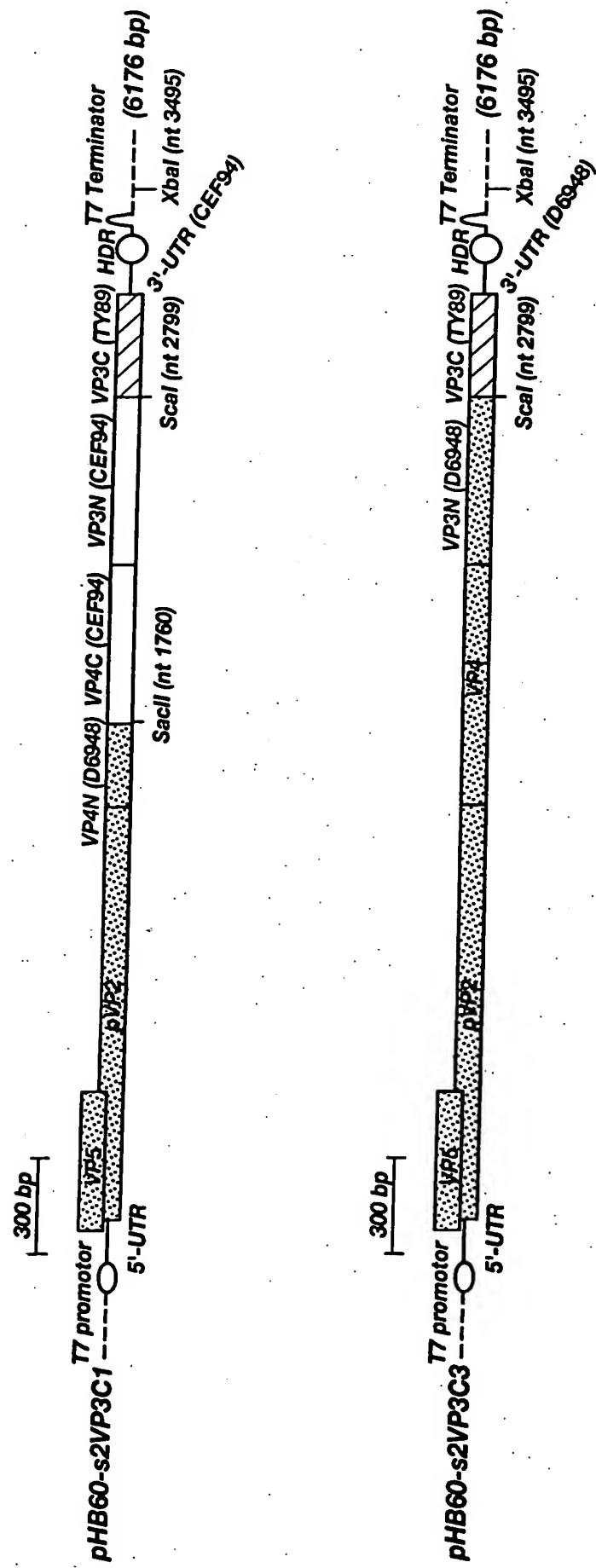


FIG. 14

FIG. 12 15

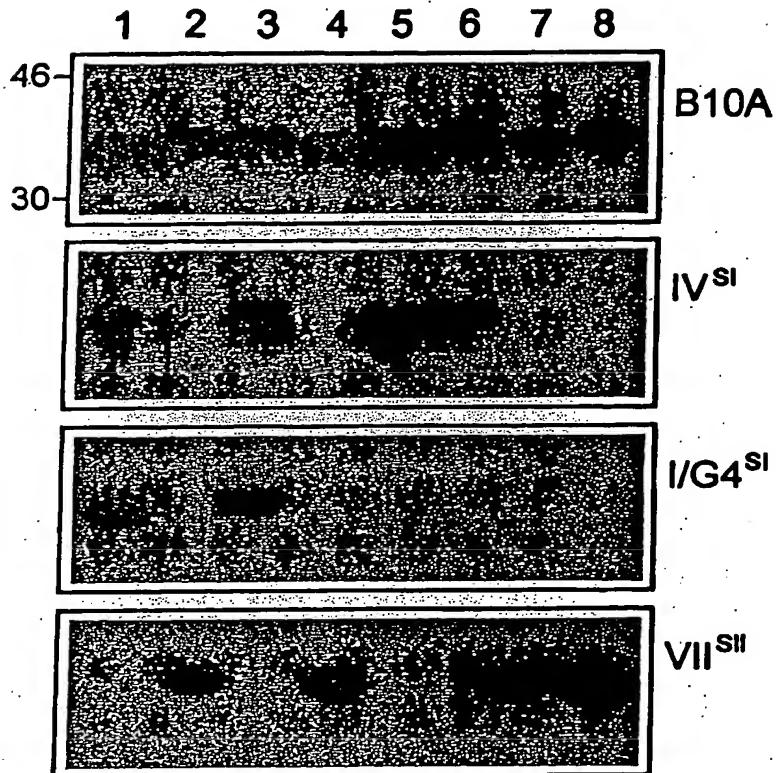


FIG. 16

VP4  VP3*SacII*

CEF94-PP: 724- FPHNPRD WDRLLPYINIP YLPPNAGRQY HLMARASEFK ETPELESAVR AMEAAANVDP 780
 D6948:D.....
 TY89-PP: 724-.....T.....F.....L.....D.....D.....780

CEF94-PP: LFQSALSVM WLEENGIVTD MANFALSDPN AHRMRNFLAN APQAGSKSQR AKYGTAGYGV 840
 D6948:R.....Q.....
 TY89-PP:K.....
P.....
D.....
E.....840

SacI

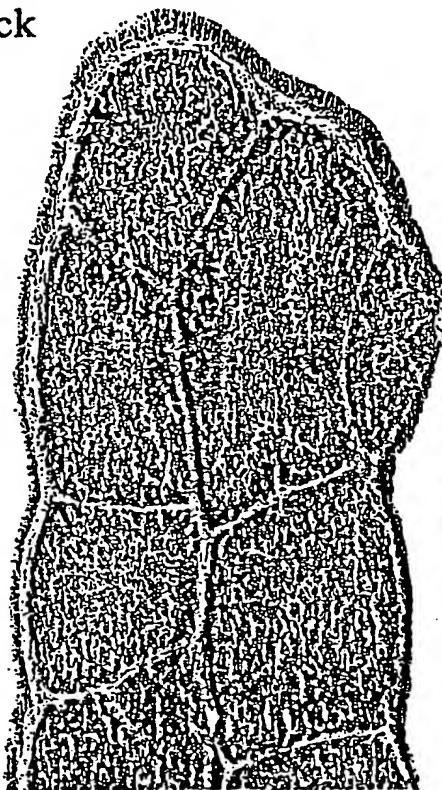
CEF94-PP: EARGPTPEEA QREKDTRISK KMETMGIYFA TPEWVALNGH RGPSPGQLKY WQNTREIPDP 900
 D6948:P.....
 TY89-PP:P.....
D.....
E.....900

CEF94-PP: NEDYLDYVHA EKSRIASEEQ IIRAAATSIYG AGQAEPPQA FIDEVAKVYE INHGRGPQE 960
 D6948:P.....
 TY89-PP:P.....
V.....
R.....960

CEF94-PP: QMKDLLTAM EMKHNPRRA LPKPKPKPNA PTQRPPGRLG RWIRTVSDED LE 1012
 D6948:P.....
 TY89-PP:P.....
S.....1012

FIG. 14 17

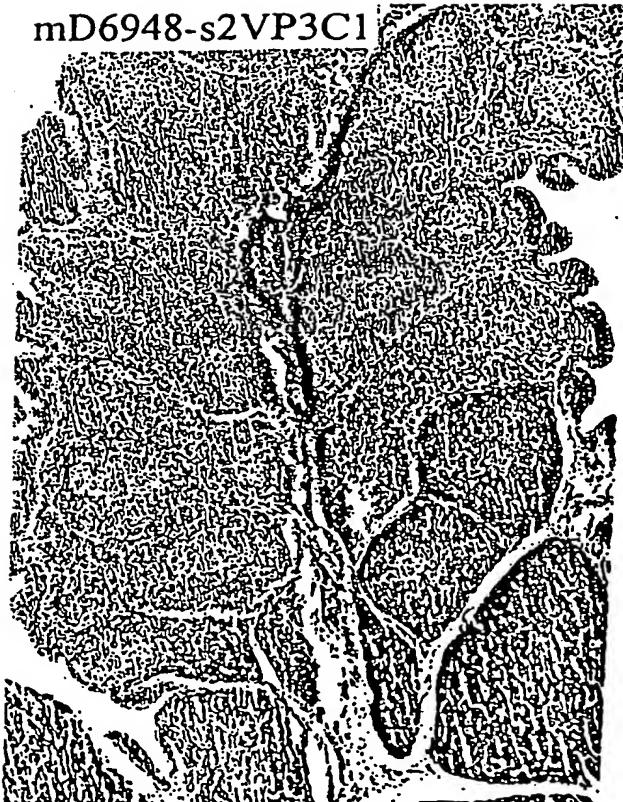
Mock



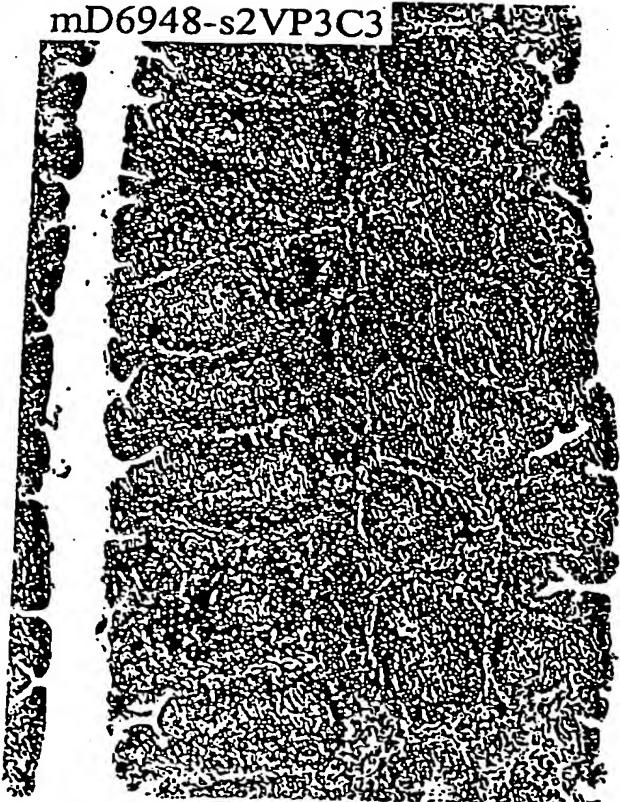
D6948



mD6948-s2VP3C1



mD6948-s2VP3C3



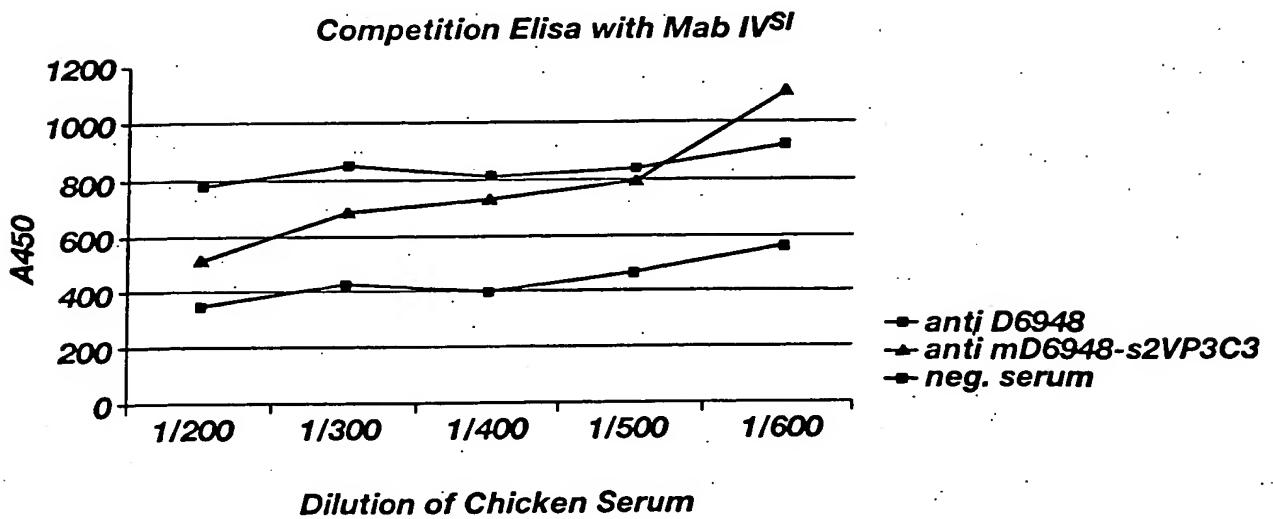
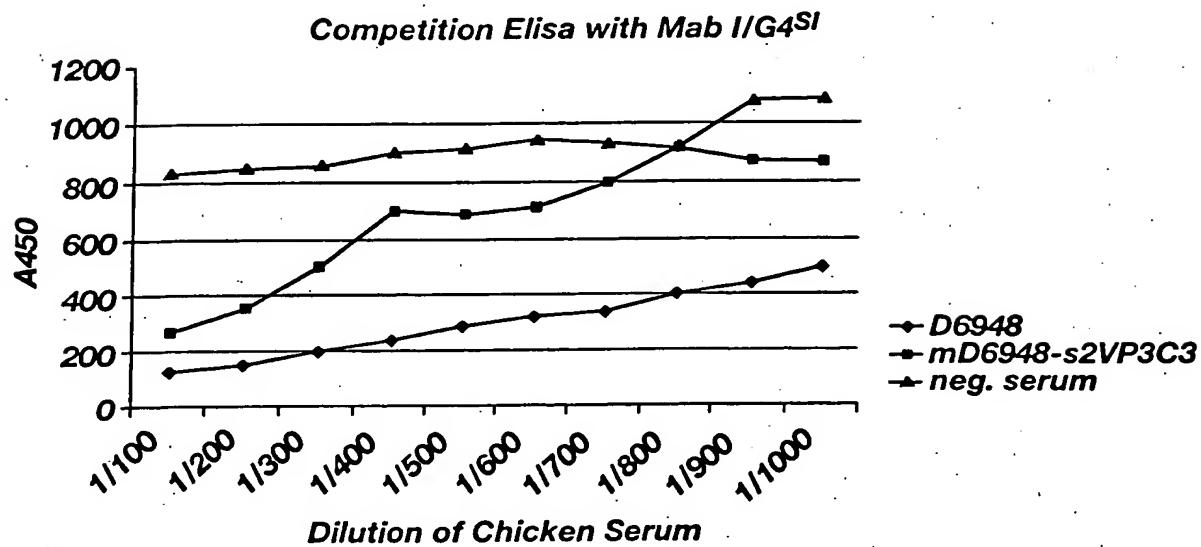


FIG. 15 18

FIG. 26A /9

D6948-VP5: MLSIMVSRDQ TNDRSDEPA RSNPTDCSVH TEPSDANNRT GVHSGRHPRE AHSQVRDLDL 60
CEF94-VP5:K.....G.....56

D6948-VP5: QFDGGGHRRV ANCFLFWFPW LNCGCCSLHTA EQWELOVRSRDPADCPEPTQQ LQLQASESE 120
CEF94-VP5:I.....116

D6948-VP5: SHSEVKHTPW WRLCTKWHHK RRDLPRKPE
CEF94-VP5:S.....R.....145

FIG. 18A 20A

D6948-PP: CEF94-PP:	MTNLQDQTQQ IVPFIRSSLIM PTTGPASIPD DTLEKHTLRS ETSTYNLTVG DTGSGLIVFF 60
D6948-PP: CEF94-PP:	PGFPGSIVGA HYTLQSNGNY KFDQMLLTQA NLPASYNYCR LVSRSLTVRS STLPGGVYAL 120
D6948-PP: CEF94-PP:	NGTINAVTFQ GSLSELTDVS YNGLMSATAN INDKIGNVLV GEGVTvSLP TSYDLGYVRL 180
D6948-PP: CEF94-PP:	GDPPIAIGLD PKMVATCDSS DRPRVYTITA ADDYQFSSQY QAGGVITILF SANIDAITSL 240
D6948-PP: CEF94-PP:	SIGGELVFQT SVQGLLIGAT IYLIGFDGTA VITRAVAADN GLTAGTDNLM PFNIVIPTSE 240 .V..... :H..V..... .N..... T.....L ..L...N. 300
D6948-PP: CEF94-PP:	ITOPITSIKL EIVTSKSGGQ AGDQMSWSAS GSLAVTIHGG NYPGALARPVVT LVAYERVATG 360
D6948-PP: CEF94-PP:	SVVTVAGVSN FELIPNPELA KNLVTEYGRF DPGAMNYTKL ILSERDRIGI KTWWPTREYT 420
D6948-PP: CEF94-PP:	DFREYFMEVA DLNSPLKIAG AFGFKDIIRA LRRIAVPVVS TLFPPAAPLA HAJIGEVVDYL 480
D6948-PP: CEF94-PP:	<u>LGDEAQQAASG</u> TARAASGKAR AASGRIROLT LAADKGYEVV ANLEQVQPNP VVGDGILASP 540
D6948-PP: CEF94-PP:	<u>ILRGAHNLD</u> C VLREGATLFP VVITIVEDAM TPKALNSKMF AVIEGVREDL QPPSQRGSF 600 V.....
D6948-PP: CEF94-PP:	<u>RTLSGHHRVY</u> G YAPDGVLPLE TGRDYTVWPI DDVWDDSIML SKDPIPPIVG NSGNLAIAYM 660
D6948-PP: CEF94-PP:	<u>DVFRPKVPI</u> H VAMTGANAY GEIENVSFRS TKLATAHRLG LKLAGPGAFD VNTGSNWATF 720

~~FIG. 26B~~ ~~FIGURE~~ FIG. 2DB

Serial No. 10/046,671; Filed 1/14/2002
Proposed Amendment
Reply to Form PTO-948 dated 7/25/02
ANNOTATED SHEET SHOWING CHANGES

D6948-PP:	<u>IKRFPHNPRD WDRLPYLNLP YLPPNAGROY</u>	DIAMAASEFK ETPELESAVR AMEAAANVDP	780
CEF94-PP:	.....	H.....	780
D6948-PP:	LFQSALSVEM WLEENGIVTD MANFALSDPN AHRMRNFLAN APQAGSKSQR AKYGTAGYGV	840	
CEF94-PP:	.....	.....	840
D6948-PP:	EARGPTPEA QREKDTRISK KMETMGIYFA TPEWVALNGH RGPSPGQLKY	WQNTREIPDP	900
CEF94-PP:	.....	.....	900
D6948-PP:	NEDYLDYVHA EKSRLASEEQ ILRAATSIYG APGQAEPQQA FIDEVAKVYE INHGRGPQE	960	
CEF94-PP:	.....	.....	960
D6948-PP:	QMKDLLTAM EMKHRNPRRA PPCKPKPKPNA PTQRPPGRLG RWIRAVSDED LE	1012	
CEF94-PP:	L.....	T.....	1012

FIG. 21A

D6948-VP1:	MSDVENSSPQA RSKISAAFGGI KPTAGQDVEE LLIPKVVWVPP EDPLASPSRL AKFLRENGYK	60
CEF94-VP1:	.....I.....T.....	60
D6948-VP1:	ILQPRSLPEN EEVETDQILP DLAWMRQIEG AVLKPTLSLP IGDOQEYFPKY YPTHRSKEK	120
CEF94-VP1:	V.....	120
D6948-VP1:	PNAYPPDIAL LKQMIYLFLQ VPEATDNLKD EVTLITQNIR DKAYGSGTYM GOATRLVAMK	180
CEF94-VP1:	.....NEG.....	180
D6948-VP1:	EVATGRNPNK DPLKLGYTFE SIAQLLDITL PVGPPGEDDK PWVPLTRVPS RMLVLTDVD	240
CEF94-VP1:	.....D.....	240
D6948-VP1:	GFEVEDYLP KINLKSSGL PYVGRTKGET IGEIMAIISNQ FIRELSALLK QGAGTKGSNK	300
CEF94-VP1:	.....D.....T.....	300
D6948-VP1:	RKLLSMLSDY WYLSCLLFP KAERYDKSTW LTKTRNIWSA PSPTHLMISM ITWPVMSNSP	360
CEF94-VP1:	.....	360
D6948-VP1:	NNVLNIEGCP SLYKFNPFRG GLNRIVEWM APDEPKALVY ADNIYIVHSN TWYSIDLEKG	420
CEF94-VP1:	.....L.....E.....	420
D6948-VP1:	EANCTRQHMQ AAMYILTRG WSDNGDPMFN QTWATFAMNI APALVVDSSC LIMNLQIKTY	480
CEF94-VP1:	.....R.....	480
D6948-VP1:	GQSGNAATF INNHLLSTLV LDQWNLMKQP SPDSEEFKSI EDKLGINFKI ERSIDDIRKG	540
CEF94-VP1:	.....R.....R.....	540
D6948-VP1:	LRQLVPLAQP GYLSGGVEPE QPSPTVELD LGWSATYSKD LGIYVPVLKD ERLFCSAAYP	600
CEF94-VP1:	.....L.....S.....	600
D6948-VP1:	KGVENKSLKS KVIGEQAYKV VRYEARLVRG GWNYPLINKA CKNNASAARR HLEAKGFPLD	660
CEF94-VP1:	.....G.....	660
D6948-VP1:	EFLAEWSELS EFGEAFFEGFN IKLTVTPESL AELNRPVPPK PPNVNRPVNT GGLKAVSNAL	720
CEF94-VP1:	.....S.....K.....	720

FIG. 26C Cont'd. FIG. 21B

D6948-VP1:	KTGGRYRNEAG	LSGLVILLATA	RSRLQDAVKA	KAAEAKLHKs	KPDPPDADWF	ERSETLSDLL	780
CEF94-VP1:	.....	.....	.....	.....	.....	.....	780
D6948-VP1:	EKADIASKVA	HSALVETSDA	LEAVQSTSvY	TPKYPEVKNP	QTASNPNVVG	HLPAKRATGV	840
CEF94-VP1:	.....	.....	.....	.....	.....	.....	840
D6948-VP1:	QAALLGAGTS	RPMGMEAPTR	SKNAVMAKR	RQRQKESRQ-	-	879	
CEF94-VP1:	.....	.....	.....	.....	.....	.....	881
					Q	P	

Serial No. 10/046,671; Filed 1/14/2002
Proposed Amendment
Reply to Form PTO-948 dated 7/25/02
ANNOTATED SHEET SHOWING CHANGES

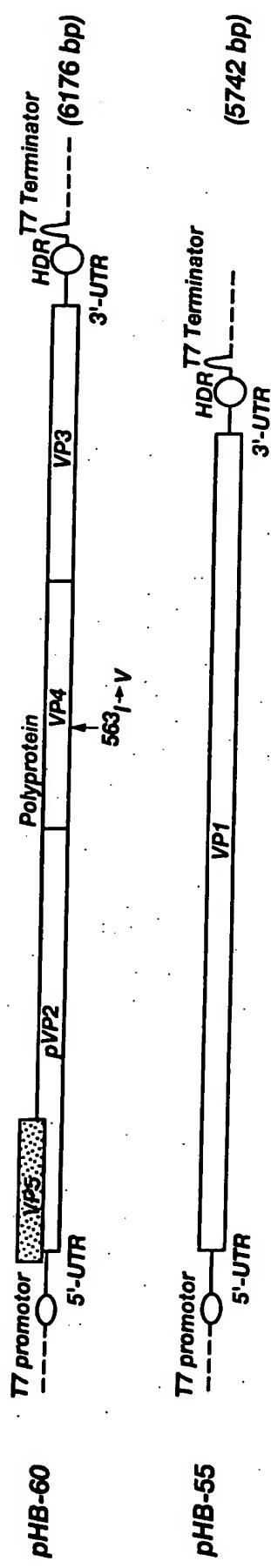


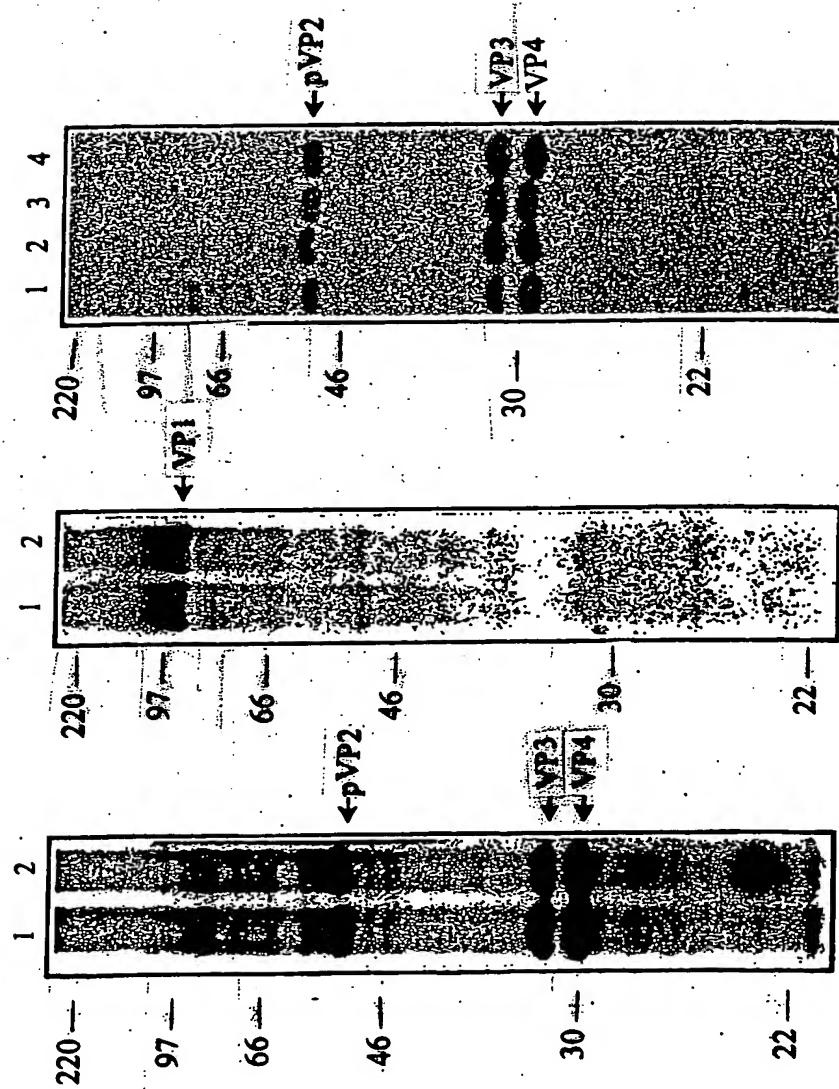
FIG. 22

FIG. 18A

23B

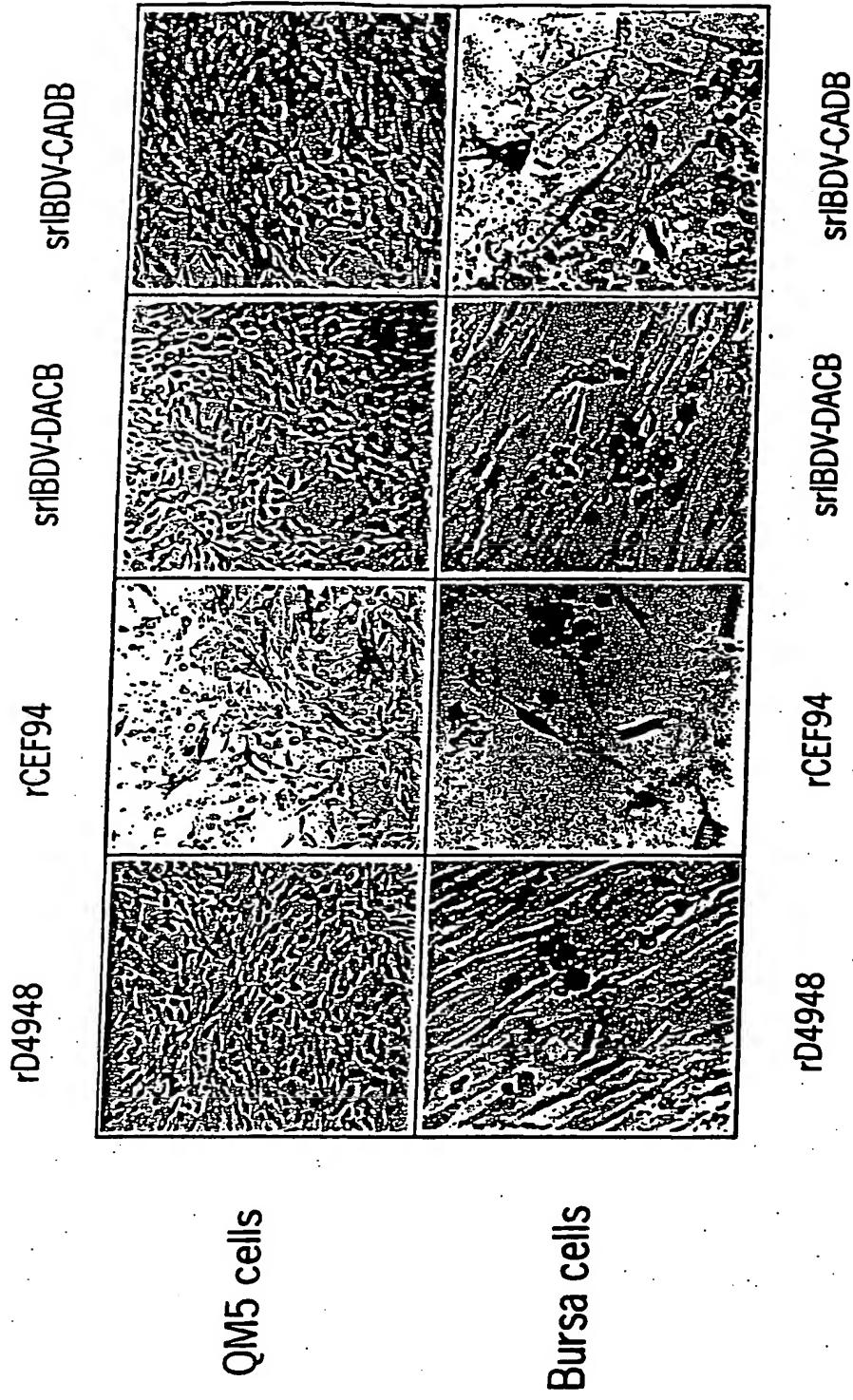
23C

FIG. 18E



Serial No. 10/046,671; Filed 1/14/2002
Proposed Amendment
Reply to Form PTO-948 dated 7/25/02
ANNOTATED SHEET SHOWING CHANGES

FIG. 24



Proposed Amendment
Reply to Form PTO-948 dated 7/25/02
ANNOTATED SHEET SHOWING CHANGES

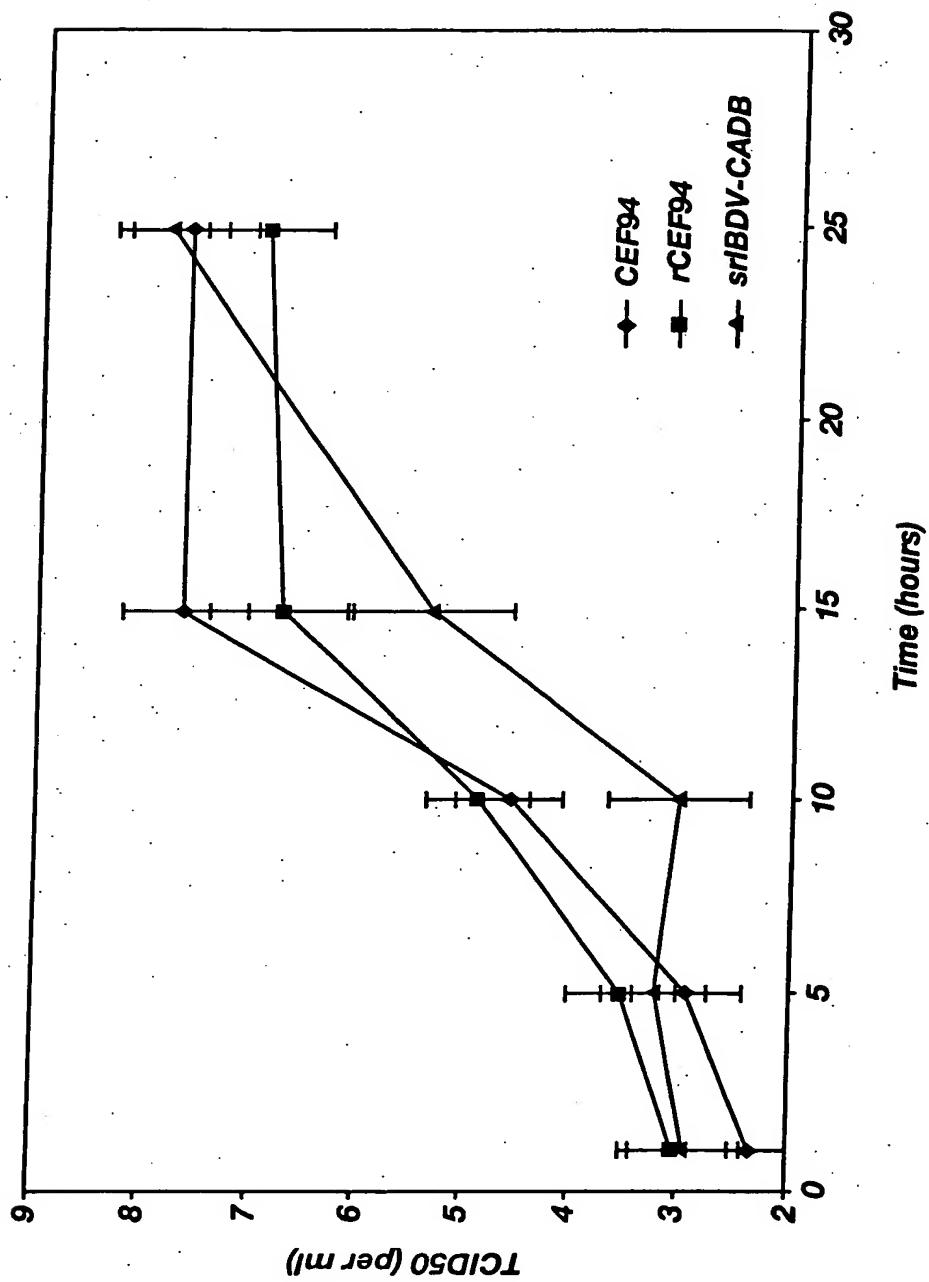


FIG. 26 25

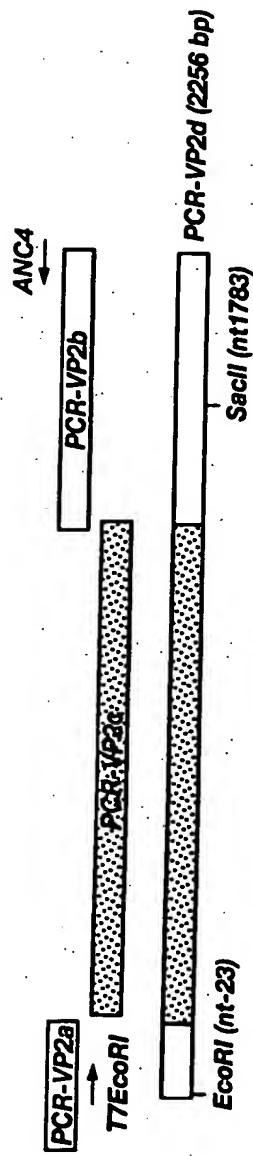
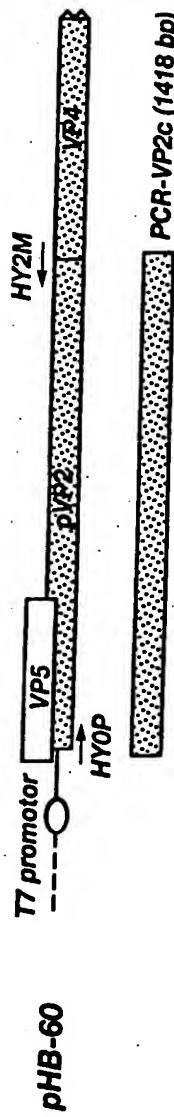
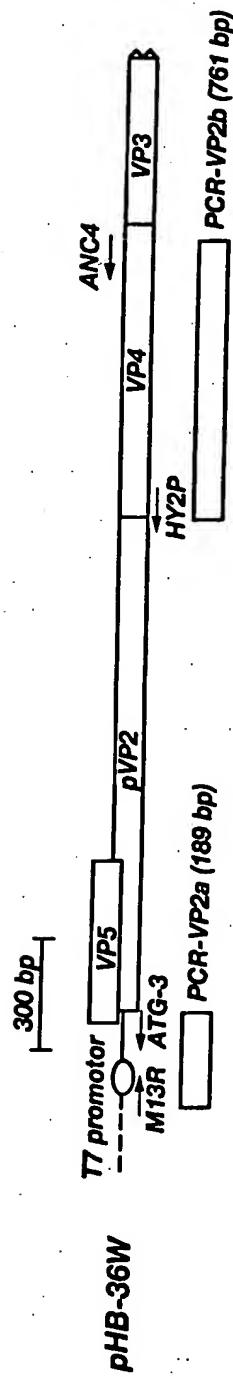
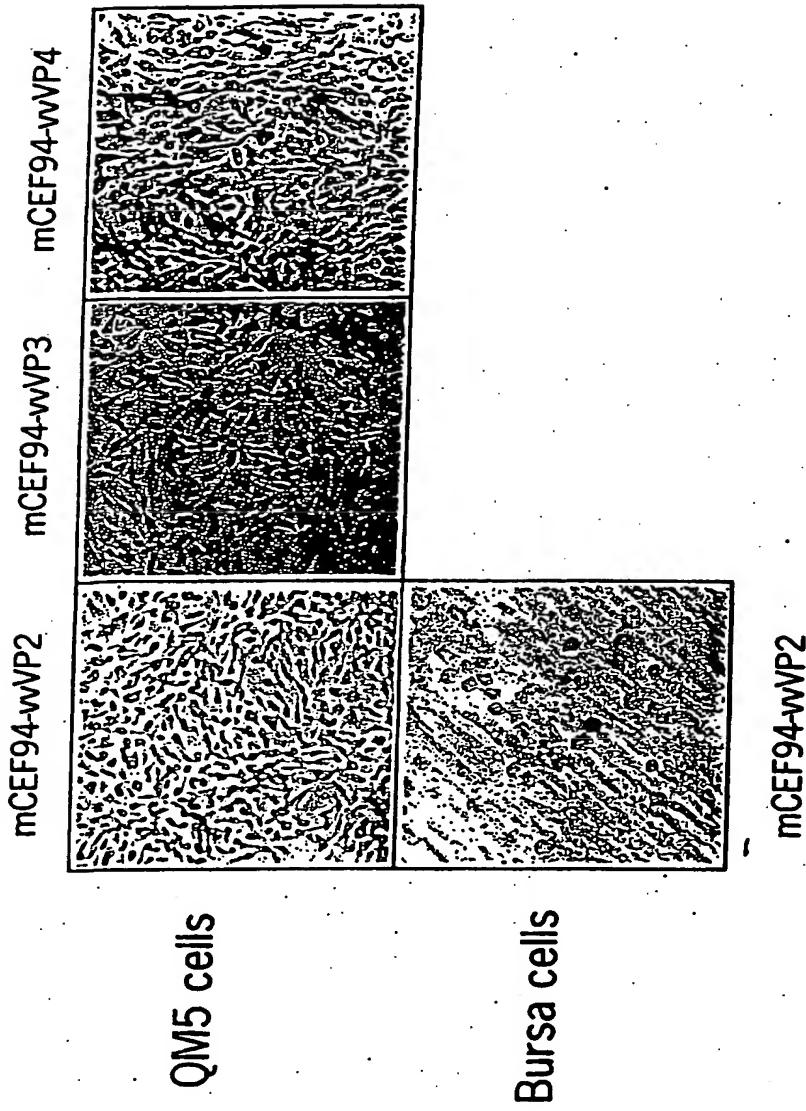


FIG. 27 26

FIG. 22 27



Proposed Amendment
Reply to Form PTO-948 dated 7/25/02
REPLACEMENT SHEET

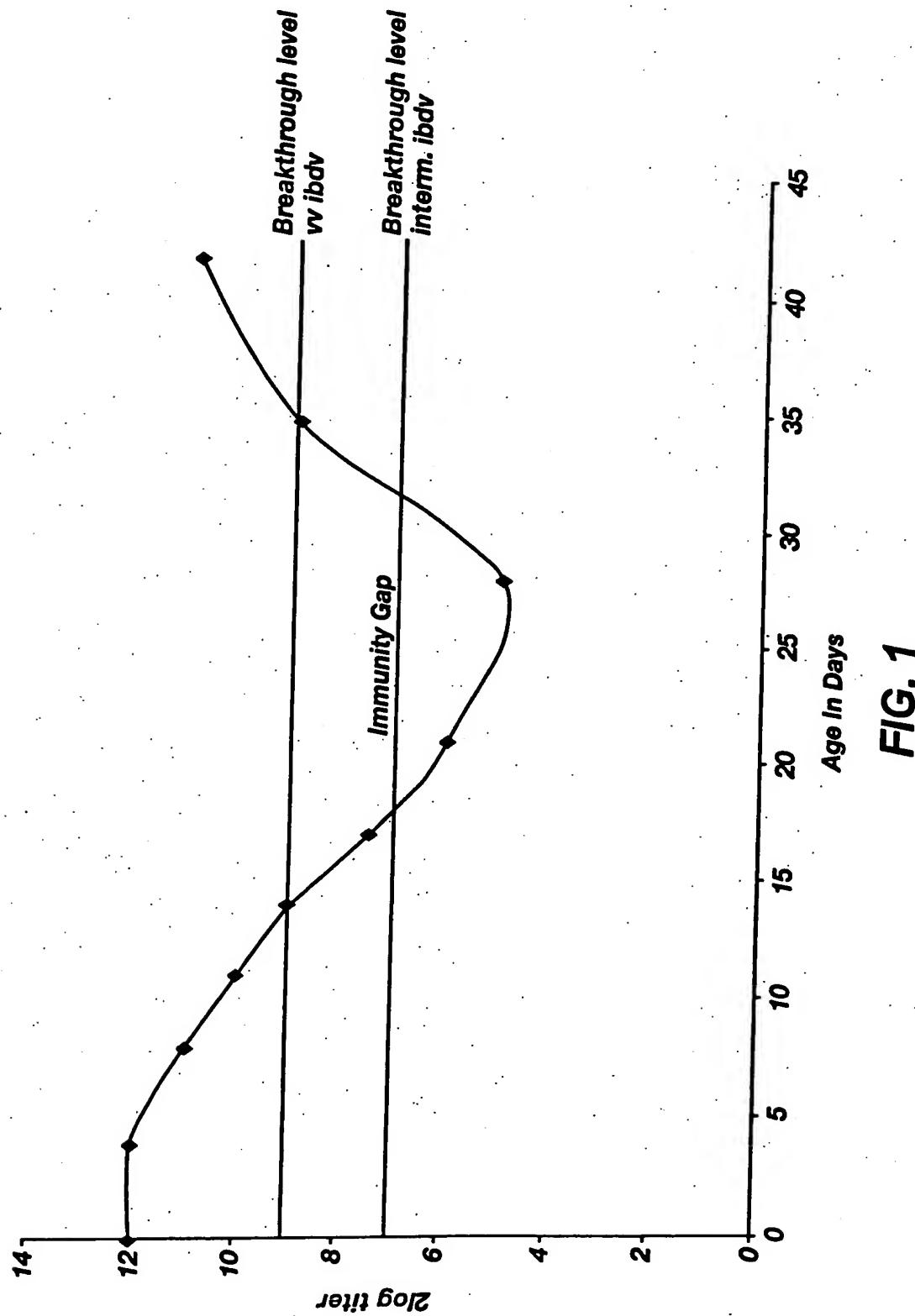


FIG. 1

FIG. 2A

CONSENSUS:	ggatacgttc ggtctgaccc cggggagtc accggggac aggcgywcaa ggycttgccc	60
CEF94-A:	.....	.....c.t....t.....
D6948-A:	.....	.....t.a...c.....
TY89-A:	.....	.....60
CONSENSUS:	caggatggaa ctccctcccta tacaaygcta tcattgtgg tyagttagaga tcagacaaac	120
CEF94-A:	.....	.....c.....
D6948-A:	.....	.....t.....
TY89-A:	.....	.....120
CONSENSUS:	gatcgcaagcg atgacraacc tgcaagatca aacccaaacag attgttccgt tcatacggag	180
CEF94-A:	.....	.....a.....
D6948-A:	.....	.....g.....
TY89-A:	.....	.....180
CONSENSUS:	ccttctgttg ccaacaaccg gaccggcggtc cattccggac gacaccctrq agaaggcacac	240
CEF94-A:	.....	.....g.....
D6948-A:	.....	.....a.....
TY89-A:	.....	.....240
CONSENSUS:	tctcaggta gagacctcgatc cttacaattt gactgtgggg gacacagggt caggctaat	300
CEF94-A:	.....	.....
D6948-A:	.....	.....
TY89-A:	.....	.....300
CONSENSUS:	tgtcttttc cttggwttcc ctggctcaat tgtgggtgtc cactacacac tgcagagcaa	360
CEF94-A:	.....	.....a.....
D6948-A:	.....	.....t.....
TY89-A:	.....	.....360
CONSENSUS:	tggaaactac aagttcgatc agatgctccct gactgccag aaccctacgg ccaggtacaa	420
CEF94-A:	.....	.....t.....
D6948-A:	.....	.....c.....
TY89-A:	.....	.....420

Proposed Amendment
Reply to Form PTO-948 dated 7/25/02
REPLACEMENT SHEET

FIG. 2B

CONSENSUS:	cacaaggcctc	agcrtgggg	gagarctcggtttcaaaaca	agcgtccamgccttact	900
CEF94-A:	.....	.....	.....	.....	900
D6948-A:	.....	g.t.	.....	.....	900
TY89-A:	.....	.....	.....	.....	900

CONSENSUS:	cgcaracaat	gggctracgr	ccggcacgya	caaccttwtg	ccattcaatim	tttgtgattcc	1020
CEF94-A:	.....a.....	.....a.....	.....g...a	.....c..	.....t..	.....a	1020
D6948-A:	.....g....	.....g....	.....a...g	.....a..	.....t..	.....a	1020
TY89-A:	-----	-----	-----	-----	-----	.....c	1020

CONSENSUS: aacmarcgag ataaaccagg caatcacatc catcaaactg gagatagtga cctccaaaag 1080
CEF94-A:a.a.....
D6948-A:c.g.....
TY89-A: -----

CONSENSUS: ccayggtggc aactatccag gggccctccg tcccgtaacr ctagtrgcct acgaaaagt
CEF94-A:t.....
D6948-A:C.....
TY89-A:-.....

CONSENSUS:	ggcaacaggaa	tcygtcggtta	cggtcgcyygg	ggtagcAAC	ttccgagctga	tcccaaATCC	1260
CEF94-A:	.....	.....	.....	C.....	.....	.....	1260
D6948-A:	.....	.....	.....	t.....	.....	.....	1260
TY89-A:	.....	.....	.....	.....	.....	C.....	1260

FIG. 2C

CONSENSUS:	tgaactagca aagaacctgg tyacagaata cggccgattt gaccaggag ccatgaacta	1320
CEF94-A:	..... t.....	1320
D6948-A:	..... c.....	1320
TY89-A:	.....	1320

CONSENSUS:	cacaaaattg atactgatgt agagggaccg tcttggcatt aagaccgtmt ggcccaacaagg	1380
CEF94-A:	.....	1380
D6948-A:	.....	1380
TY89-A:	.....	1380

CONSENSUS:	ggagttacact gactttcggy artacttcatt ggagggtggcc gacctaact ctccccctgaa	1440
CEF94-A:	..... t..... a.....	1440
D6948-A:	..... c..... g.....	1440
TY89-A:	.....	1440

CONSENSUS:	gattgcagga gcattyggct tcaaagacat aatccgggcc mtaaggagga tagctgtgcc	1500
CEF94-A:	..... c..... a.....	1500
D6948-A:	..... t..... c.....	1500
TY89-A:	.....	1500

CONSENSUS:	ggtgtctcy acaytgttcc caccyggcc tccccttagcc catgcaatttg gggaaagggtgt	1560
CEF94-A:	..... c..... t.....	1560
D6948-A:	..... t..... c.....	1560
TY89-A:	.....	1560

CONSENSUS:	agactacctg ctggggatg aggacagggc tgcttcagga actgtctcgag ccgcgtcagg	1620
CEF94-A:	.....	1620
D6948-A:	.....	1620
TY89-A:	.....	1620

CONSENSUS:	aaaagcaaga gctgcctcag gccgcataaag gcagctract ctgcggccg acaagggtta	1680
CEF94-A:	..... g.....	1680
D6948-A:	..... a.....	1680
TY89-A:	.....	1680

FIG. 2D

FIG. 2E

CONSENSUS:	ggcragtta	atcaaacgtt	tycccacaa	tccctcacaa	tccmcmgac	tggacaggy	tmcccytatcc	2340
CEF94-A:	.....a.....	.....c.....	.....c.....	.....c.....	.....a...c..	.....c.....	.....c.....	2340
D6948-A:	....g....t	.....t.....	.....t.....	.....t.....	.....a...c..	.....c.....	.....c.....	2340
TY89-A:	-----	-----	-----	-----	.....c...a..	.....t.....	.....a...c..	44

CONSENSUS: caaacctwccm tayctyccac cmatwgcwgg acgycagtwc sayctkgccm tggchgcgtc
CEF94-A:a..a ..c..t.... .c.at...a... .c.c...a.. .c.c..t...a ..t...a..a..
D6948-A:t..a ..c..t.... .c.at...a... .c.c...a.. .g.c..g...a ..c..t..a..
TY89-A:t..c ..t..c.... .a.ca..t... .t...t..t.. .t..g..c ..a..c..t..

CONSENSUS:	mgagttcaaa	gagaccccmg	aactcgarr	ygcygttsmgw	gcmatggamg	cwgcwgcmaa	2460
CEF94-A:	a.....	.....c.	.....c.	.....gag	t.....c..ca..a	....a..a..c..	2460
D6948-A:	a.....	.....c.	.....c.	.....gag	c.....c..ca..a	....c..a..a..c..	2460
TY89-A:	.....c.	.....a.	.....a.	.....aga	c.....t..gc..t	....a..c..t..t..a..	164

CONSENSUS:	cgtsgaccca	ytrttccrmt	cwgcdctcmr	bgtsttcatg	tggtytggaaag	araaygggat	2520
CFF94-A:	...g.....	c.a....aa.	...t..a...ag	t..g....	...c....	...g..t....	2520
D6948-A:	...g.....	c.g....aa.	...t..g...ag	c..g....	...c....	...g..t....	2520
TY89-A:	...c.....	t.g....gc.	.a..t...ca	g..c....	...t....	...a..c....	224

FIG. 2F

FIG. 2G

FIG. 3A

CONSENSUS:	ggatacgtg	ggtctgaccc	tctggagtc	acgaattaac	gtggctacta	gggggatrm	60
CEF94-B:	.....	.....	.....	.....	.....	.....c..aa	60
D6948-B:	.....	.....	.....	.....	.....t..gc	60	
CONSENSUS:	ccrcccgtrg	ctgcccacgtt	agtggctcc	tttcttgatg	attctrcac	catgagtgc	120
CEF94-B:	...g.....g.	.....	.....	.....	.....g..	.....	120
D6948-B:	...a....a.	.....	.....	.....	.....a..	.....	120
CONSENSUS:	rtttcaaya	gtccacaggc	gccaaggcang	atmtcagcag	cgttcggcat	aaggctacw	180
CEF94-B:	a.....c.	.....	.....	.....c.	.....	.....t	180
D6948-B:	g.....t.	.....	.....	.....a.	.....	.....a	180
CONSENSUS:	gctggacarg	aygtggaaaga	actcytgatc	cctaargtyt	gggtgccacc	tgaggatccs	240
CEF94-B:	.....a..c..	.....	.....t.....	.....a..t..	.....	.....g..	240
D6948-B:	.....g..t..	.....	.....c..	.....g..c..	.....	.....c	240
CONSENSUS:	ytkccagcc	ctagtcgwct	ggcmaagttc	ctcaagrrara	acggctacaa	rrttytgca	300
CEF94-B:	c.t.....a..	.....	.....a..	.....a..g..	.....	.....ag..t..	300
D6948-B:	t..g..	.....	.....t..	.....c..	.....g..a..	.....ga..c..	300
CONSENSUS:	ccacggtctc	trccyggagaa	tgaggatgt	gaggaccgayc	aaatactccc	wgacytagcw	360
CEF94-B:	.....g..c..	.....	.....c..	.....	.....a..t..	.....a..t..	360
D6948-B:	.....a..t..	.....	.....t..	.....	.....t..c..	.....t..c..t	360
CONSENSUS:	tggatgmgrc	agatagargg	rgctgtttta	aaaccmacyc	tatctctccc	yattggagay	420
CEF94-B:	.....c.a.	.....	.....a..	.....g..	.....	.....t..	420
D6948-B:	.....a.g.	.....	.....g..	.....a..	.....a..c..	.....c..	420
CONSENSUS:	caggagtact	tcccwarta	ctacccaaca	caycgcckka	gcaaggaraa	gcccataatgcg.	480
CEF94-B:	.....	.....	.....a..g..	.....	.....t..	.....g..	480
D6948-B:	.....	.....	.....t..a..	.....	.....c..g..	.....a..	480

Serial No. 10/046,671; Filed 1/14/2002
Proposed Amendment
Reply to Form PTO-948 dated 7/25/02
REPLACEMENT SHEET

FIG. 3B

CONSENSUS: tacccgcgm ayatccgcyt actcaagcag atgatytacy ttttctcca gtttccmagg 540
CEF94-B:a.c.t.c.a... 540
D6948-B:c.t.c.t.c... 540

CONSENSUS: gccammgakr rcctwaarga tgargtmacc ctmytracc aaaaacatwag rgayaargcc 600
CEF94-B: ...ac..gg g...a..g.. .a...a....ct.g....a... g..c..g... 600
D6948-B: ...ca..ta a..t..a.. .g..c... ac.a... t... a..t..a... 600

CONSENSUS: taygragtg ggacctacat ggacargcm acymgacttg tkgyatgaa rgaggttygcc 660
CEF94-B: ..t..a...a..a ..tc.....g..c....g.....c... 660
D6948-B: ...c..g....g..c ..ca.....t..t.... a.....t... 660

CONSENSUS: actggragaa acccaaaca rgatcctcta aagcttgggt acacytttga gagcatmgcs 720
CEF94-B:a....g.....a.....g.....t.....c..g 720
D6948-B:g....a.....a.....c.....a..c 720

CONSENSUS: cagctacttg acatcacwyt accggtaggc ccacccgggt aggatgacaa gcccctggtr 780
CEF94-B:ac.....tt.....tt.....tt.....a.....g 780
D6948-B:tt.....tt.....tt.....tt.....a.....a 780

CONSENSUS: ccactcacaa grgtgcccgc amggatgttg gtwtgacgg gmgaacctgata tgsgamttt 840
CEF94-B:a.....c.....a.....a.....a.....c..c... 840
D6948-B:g.....a.....t.....t.....c.....g..a... 840

CONSENSUS: gaggttgarg aytaccttcc caaaatcaac ctcagaatcat caagttggact rccmtatgtw 900
CEF94-B:a.....t.....t.....t.....a..a.....a 900
D6948-B:g.....c.....c.....c.....g..c.....t 900

CONSENSUS: ggtcgccacca aaggagarac wttggsgag atgatagyta tmtcraacca gtttctymga 960
CEF94-B:g.....a.....c.....t.c..a.....ca... 960
D6948-B:a.....t.....g.....c.....a..g.....tc.. 960

FIG. 3C

FIG. 3D

CONSENSUS: ctagtkgtgg actccatcrtg yctgatwatg aacctkcaratyaagacmtatggtaaggc 1560
CEF94-B:g.....g.....a.....g.....t.....a.....t.....a.....t.....a.....a.....c.....
D6948-B:t.....t.....a.....t.....t.....t.....t.....t.....t.....a.....a.....1560

CONSENSUS: agyggaaatg cagccacstt catcaacaac cayctyytka gcacsctwgt gctwgaccag 1620
CEF94-B: ...c.....g.....c.....ct..g.....g..a.....t.....t.....a.....a.....a.....1620
D6948-B: ...t.....c.....t.....t.....tc..t.....c..t..a.....a.....a.....1620

CONSENSUS: tggaacytga tgarrarcc yagwccagac agcgargagt tcaartcaat tgargacaag 1680
CEF94-B: ...c...ga..g..c..a.....g.....a.....a.....a.....a.....a.....a.....1680
D6948-B: ...t...ag..a..t..t....a.....a.....a.....g.....g.....a.....a.....1680

CONSENSUS: ctrggyatca acttyaagat tgagagggcc attgtatgaya tyagggcaa gctsagacag 1740
CEF94-B: ...a..t....t.....t.....t.....t.....t.....t.....t.....t.....t.....1740
D6948-B: ...g..c....c.....c.....c.....c.....c.....c.....c.....c.....c.....1740

CONSENSUS: cttgtccycc ttgcacaacc aggttacctg agtgggggg tygaaccaga rcaayccagc 1800
CEF94-B:t.....t.....t.....t.....a.....a.....a.....a.....c.....a.....1800
D6948-B:c.....c.....c.....c.....a.....a.....a.....a.....g.....c.....1800

CONSENSUS: ccaactgtwg agctkgacct actmggrtgg tcwgcwacut acagaaaga tctyggatc 1860
CEF94-B:t.....t.....a..g.....a..t..a.....a.....a.....a.....a.....c.....1860
D6948-B:a.....g.....c..a.....t..a..t.....a..t.....a..t.....a..t.....1860

CONSENSUS: tatgtgccgg tgcttgacaa ggaacgcyta ttttgtctg ctgcgttatcc caargrgrta 1920
CEF94-B:c.....c.....t.....t.....t.....t.....t.....t.....t.....t.....1920
D6948-B:t.....c.....c.....c.....c.....c.....c.....c.....a.....a.....1920

CONSENSUS: gagaayaara gyctcaartc caargtggg atcgaggcarg catacaargt wgtcaaggta 1980
CEF94-B:c..g..t.....g..a..c.....a..c.....g..a.....g..a.....t.....t.....1980
D6948-B:t..a..c.....a..g..t.....g..t.....a..a..a..t.....a..t.....c.....1980

CONSENSUS: gagggcgttga ggttggtagg tggttgaaac tacccactcc tgaacaaagc ytgcagaay 2040
CEF94-B:c.....t.....c.....t.....c.....t.....c.....t.....c.....t.....c.....2040
D6948-B:t.....c.....t.....c.....t.....c.....t.....c.....t.....c.....c.....2040

Proposed Amendment
 Reply to Form PTO-948 dated 7/25/02
REPLACEMENT SHEET

FIG. 3E

CONSENSUS:	aaygcargyg	ctmgctcggcg	gcatctggag	gccaaagggt	tcccrctcga	yagatccctm	2100
CEF94-B:	...c....g.c.	.....	.....	.....	.....a.....	c.....	2100
D6948-B:	...t....a.t.	.....	.....	.....	.....g.....	t.....	2100
 CONSENSUS:	 gccgagttgg	 cwgagytgtc	 mgagttcggw	 gargcyttcg	 aaggcttcga	 yatcaagctg	 2160
CEF94-B:	...t....c....a	.....	.....t....g.c.	.....	.....	t.....	2160
D6948-B:	...a....t....c	.....	.....a....a.t....c	.....	.....	c.....	2160
 CONSENSUS:	acmgttaacay	ckgagaggct	mgccgaactk	aacarrccag	taccccca	rccyccaaat	2220
CEF94-B:	...c....t....t	.....	.....a....g....g	.....ag....g	.....	g....c.....	2220
D6948-B:	...a....c....g....c	.....	.....c....t....t	.....ga....g	.....	a....t....t	2220
 CONSENSUS:	gtcaacagac	cagtcaaacac	yggkggrctm	aaggcagtca	qcaaaggccct	caagaccggy	2280
CEF94-B:	.....	.....	.....t....g....a....c	.....	.....c....c....t	.....t....t	2280
D6948-B:	.....	.....	.....c....t....g....a	.....	.....t....t....c	.....c....c	2280
 CONSENSUS:	cggtagayra	aygaaggccgg	actragtggy	ctcgccctytc	tagccacmhc	mmgmagccgw	2340
CEF94-B:	...c....g....c....c	.....	.....g....t....t	.....t....t....a....a	.....aa....aa....t	.....aa....a....t	2340
D6948-B:	...t....a....t....a	.....	.....a....c....a....c	.....c....c....c	.....cc....c....a	.....cc....c....a	2340
 CONSENSUS:	ctrccargayg	cagtyaaggc	caaggccagar	gccggagaaac	tccacaaggtc	yaagccmgay	2400
CEF94-B:	...g....a....t....t	.....	.....a....t....t....t	.....t....a....a....t	.....aa....aa....t	.....aa....a....t	2400
D6948-B:	...a....g....c....c	.....	.....c....c....g	.....c....c....g	.....cc....c....t	.....cc....c....t	2400
 CONSENSUS:	gaccggatg	cagactggtt	ygaamprtca	gaaacyctgt	caggacctkct	ggagaaaggcc	2460
CEF94-B:	.....	.....	.....c....a....a....a	.....t....t....t....t	.....t....t....t....t	.....t....t....t....t	2460
D6948-B:	.....	.....	.....t....c....g....g	.....c....c....g	.....c....c....g	.....c....c....g	2460
 CONSENSUS:	gacatygcca	gcaagggtcg	ycactcaagca	ctcggtggaaa	caagcgacgc	ycttgaagcr	2520
CEF94-B:	...t....g....t....c....c	.....	.....t....c....c....c	.....	.....c....c....c....c	.....a....a....a....a	2520
D6948-B:	...c....a....c....a	.....	.....t....t....t....t	.....	.....t....t....t....t	.....g....t....g....t	2520
 CONSENSUS:	gtycagtcra	cyclcmgtgt	cacyccmaag	tacccagarg	tyaagaaccc	acagaccgccc	2580
CEF94-B:	...t....g....t....c....c	.....	.....a....c....a....c	.....t....t....t....t	.....a....a....a....a	.....c....c....c....c	2580
D6948-B:	...c....a....c....a	.....	.....c....a....c....a	.....t....t....t....t	.....g....t....g....t	.....g....t....g....t	2580

FIG. 3E

Proposed Amendment
Reply to Form PTO-948 dated 7/25/02
REPLACEMENT SHEET

FIG. 4A

CONSENSUS: MTNLQDQTQQ IVPFIRSLLM PTGPASIPD DTLEKHTLRS ETSTYNLTVG DTGSGLIVFF
CEF94-PP: 60
D6948-PP: 60
TY89-PP: 60

CONSENSUS:	PGFPGSIVGA HYTLQSNGNY KFDQMLLTAQ NLPASYYCR LVSRSLTVRS STLPGGVYAL	120
CEF94-PP:	.....	120
D6948-PP:	.....	120
TY89-PP:	.....	120

CONSENSUS: NGTINAVTFQ GSLSELTDVS YNGLMSATAN INDKIGNVLV GEGVTVLSLP TSYDLGYVRL 180
 CEF94-PP:
 D6948-PP:
 TY89-PP: ---

CONSENSUS: ITQPITSIKL EIVTSKSGGQ AGDQMSWSA. GSLAVTIHGG NYPGALRPVT LVAYERVATG
CEF94-PP: R
D6948-PP: S
TY89-PPP:

FIG. 4B

CONSENSUS: DFREYFMEVA DLNSPLKIAG AFGFKDIIIRA . RRIAVPVVS TLFPPAAPLA HAIGEGVDYL 480
 CEF94-PP: I..... 480
 D6948-PP: L..... 480
 TY89-PP: L..... 480

CONSENSUS: LGDEAQQAASG TARAASGKAR AASGRIRQLT LAADKGYEVV ANLFQVPQNQNP VVDGILASPQ 540
 CEF94-PP: V..... 540
 D6948-PP: I..... 540
 TY89-PP: L..... 540

CONSENSUS: LRGAAHNLDC VLREGATLFP WITTEDAM TPKALNSKMF AVIEGVREDL OPPSORGSF 600
 CEF94-PP: V..... 600
 D6948-PP: I..... 600
 TY89-PP: L..... 600

CONSENSUS: RTLSGHRVYQ YAPDGVLPLE TGRDYTVWPI DDWDDSIML SKDPPIPVG NSGNLAIAYM 660
 CEF94-PP: V..... 660
 D6948-PP: I..... 660
 TY89-PP: L..... 660

CONSENSUS: DVFRPKVPIH VAMTGALNA GEIE VSFRS TKLATAHRIG LKLAGPGAFD VNTG NWATF 720
 CEF94-PP: C..... P..... 720
 D6948-PP: Y..... N..... S..... 720
 TY89-PP: T..... F..... L..... D..... D..... 58

CONSENSUS: IKREPKNPRD WDRLPYLNLP YLPPNAGRQY HLLAMAASEFK ETPELESAVR AMEAAANVDP 780
 CEF94-PP: C..... P..... 780
 D6948-PP: D..... 780
 TY89-PP: T..... F..... L..... D..... D..... 58

CONSENSUS: LFQSALSVM WLEENGIVTD MANFALSDPN AHMRNFLAN APQAGSKSQR AKYGTAGYGV 840
 CEF94-PP: C..... 840
 D6948-PP: D..... 840
 TY89-PP: R..... Q..... K..... 118

FIG. 4C

CONSENSUS: EARGETPEEA QREKDTISK KMETMGIYFA TPEWVALNGH RGPSPGQLKY WONTREIPDP 900
 CEF94-PP: 900
 D6948-PP: 900
 TY89-PP: E. 178

CONSENSUS: NEDYLDIVHA EKSRLASEEQ ILRAATSIYG APGQAEPQA FIDEVAKVYE INHGRGPQNQE 960
 CEF94-PP: 960
 D6948-PP: 960
 TY89-PP: R. 238

CONSENSUS: QMKDILLTAM EMKHRNPRRA FPKPKPKPNA PTQRPPGRIG RWIRTVSDED LE 1012
 CEF94-PP: L. 1012
 D6948-PP: A. 1012
 TY89-PP: S. 290

REPLACEMENT SHEET

FIG. 5A

CONSENSUS:	MSD.FNSPQA RS.ISAAFGI KPTAGQDVEE LLIPIKVVWPP EDPLASPSRL AKFLRENGYK	60
CEF94-VP1:	I.....T.....	60
D6948-VP1:	V.....K.....	60
CONSENSUS:	.LQPRSLPEN EEFYETDQILP DIAWMRQIEG AVLKPTILP IGDQEYFPKY YPTHRPSKEK	120
CEF94-VP1:	V.....	120
D6948-VP1:	I.....	120
CONSENSUS:	PNAYPPDIAL LKQMIYLFLQ VPEA...LKD.EVTLTONIR DKAYGSGTYM GQATRLVAMK	180
CEF94-VP1:	.....	180
D6948-VP1:	.....	180
CONSENSUS:	EVTATGRNPNK DPIKLGYTFE SIAQOLLDITL PVGPPGEDDK PWVPLTRVPS RMLVLVTGDVD	240
CEF94-VP1:	.....	240
D6948-VP1:	.....	240
CONSENSUS:	G.FEVEDYLP KINLKSSSGL PYVGRTKGET IGEIMIAISNQ FLRELS.LLK QGAGTKGSNK	300
CEF94-VP1:	D.....	300
D6948-VP1:	E.....	300
CONSENSUS:	KRLLSMSLSDY WYLSCCGILEP KAERYDKSTW LTKTRNIWSA PSPTHLMISM ITWPVMSNSP	360
CEF94-VP1:	.....	360
D6948-VP1:	.....	360
CONSENSUS:	NNVLNIEGCP SLYKFNPFRG GLNRIVEWI AP.EPKALVY ADNIYTVHSN TWYSIDLEKG	420
CEF94-VP1:	.....	420
D6948-VP1:	.....	420
CONSENSUS:	EANCTRQHMQ AAMYYILTRG WSDNGDPMEN QTWATFAMNI APALVVDSSC LIMNLQIKTY	480
CEF94-VP1:	.....	480
D6948-VP1:	.....	480
CONSENSUS:	GQGSGNAATF INNHLLSTLV LDQWNLM.QP.PDSEEFKSI EDKLGINFKI ERSIDDIRGK	540
CEF94-VP1:	.....R.....	540
D6948-VP1:	.....K.....S.	540

FIG. 5B

CONSENSUS:	LRQLV.LAQP GYLSGGVEPE Q.SPTVELDL LGWSATYSKD LGIYVPVLDK ERLFCSAAYP	600
CEF94-VP1:	.....L.....S.....	600
D6948-VP1:	.....P.....P.....	600
CONSENSUS:	KGVENKSLKS KVGIEQAYKV VRYEALRLVG GWNYPLLNA CKNNAAARR HLEAKGFPFLD	660
CEF94-VP1:	.....G.....S.....	660
D6948-VP1:	.....S.....S.....	660
CONSENSUS:	EFLAEWSELS EFGEAFFGFN IKLTVT.ESL AELN. PVPPK PNVNRPVNT GGLKAVSNAL	720
CEF94-VP1:	.....S.....K.....	720
D6948-VP1:	.....P.....R.....	720
CONSENSUS:	KTGRYRNEAG LSGIVLILATA RSRLODAVKA KAEAELHKS KPDDPDADWF ERSETLSDLL	780
CEF94-VP1:	.....	780
D6948-VP1:	.....	780
CONSENSUS:	EKADIASKVA HSALVETSDA LEAVQSTSYY TPKYPEVKNP QTASNPVVGL HIPAKRATGV	840
CEF94-VP1:	.....	840
D6948-VP1:	.....	840
CONSENSUS:	QAALLIGAGTS RPMGMEEAPTR SKNAVMAKR RQRQKESRQ.	881
CEF94-VP1:	.....Q.....P.....	881
D6948-VP1:	.....-	879

FIG. 6

CONSENSUS:	MVSRDQTNDR	SDD.PARSNP	TDCSVHTEPS	DANNRTGVHS	GRHP.EAHSQ	VRDLDDLQFDC	60
D6948-VP5:	.....E.....	.....	.....	.....	.....R.....	.....	60
CEF94-VP5:	.....K.....	.....	.....	.....	.....G.....	.....	60
CONSENSUS:	GCHHRVRCNL	Fpw.PWLNCG	CSLHTAEQWE	LQVRSDAAPDC	PEPTGQLQLL	QASESESHSE	120
D6948-VP5:	.....F.....	.....	.....	.....	.....	.....	120
CEF94-VP5:	.....I.....	.....	.....	.....	.....	.....	120
CONSENSUS:	VKHT.WWRLLC	TK.HHKRRDL	PRKPE				145
D6948-VP5:P.....W.....					145
CEF94-VP5:S.....R.....					145

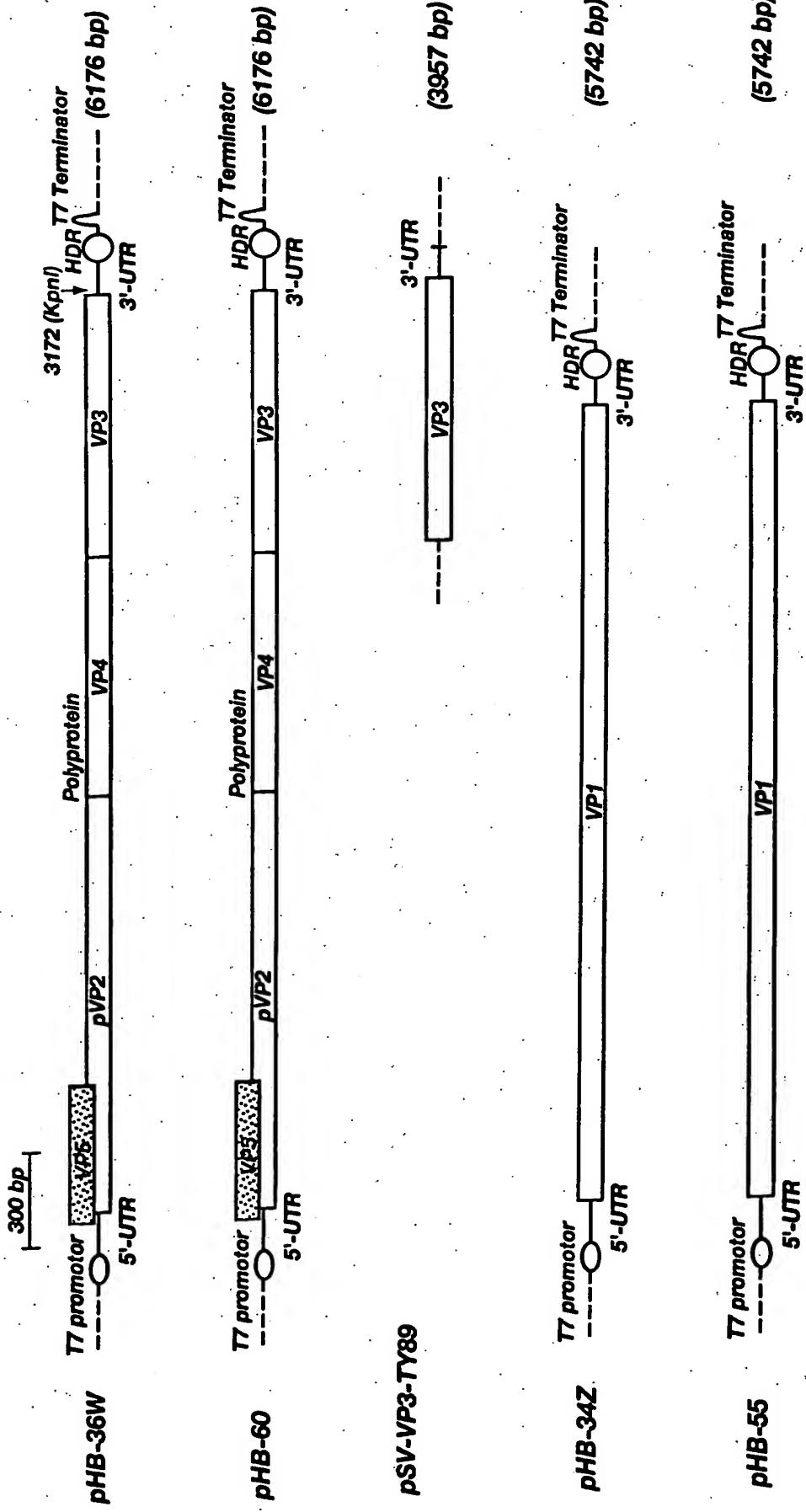


FIG. 7

Serial No. 10/046,671; Filed 1/14/2002

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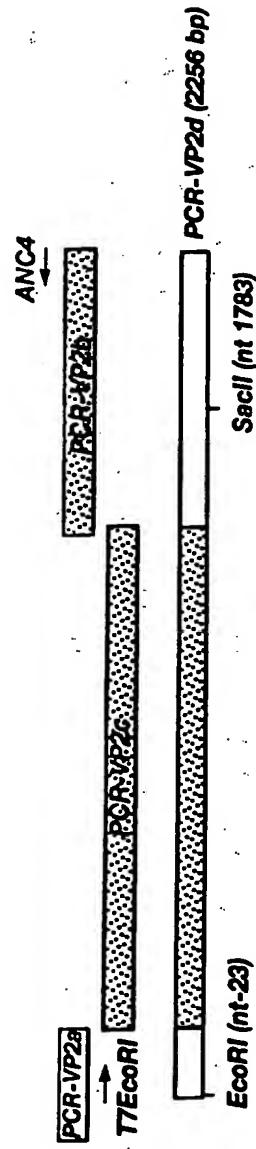
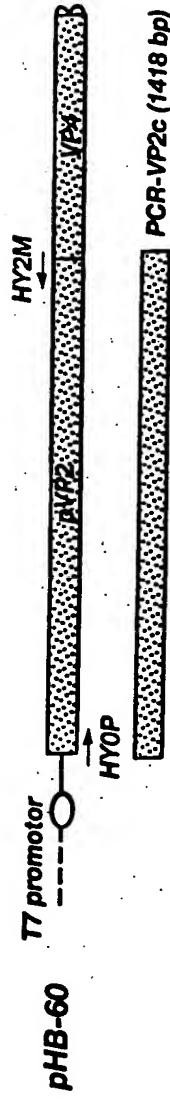
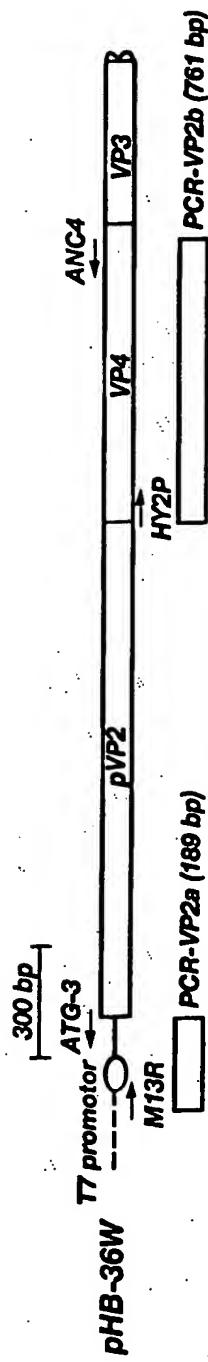


FIG. 8A

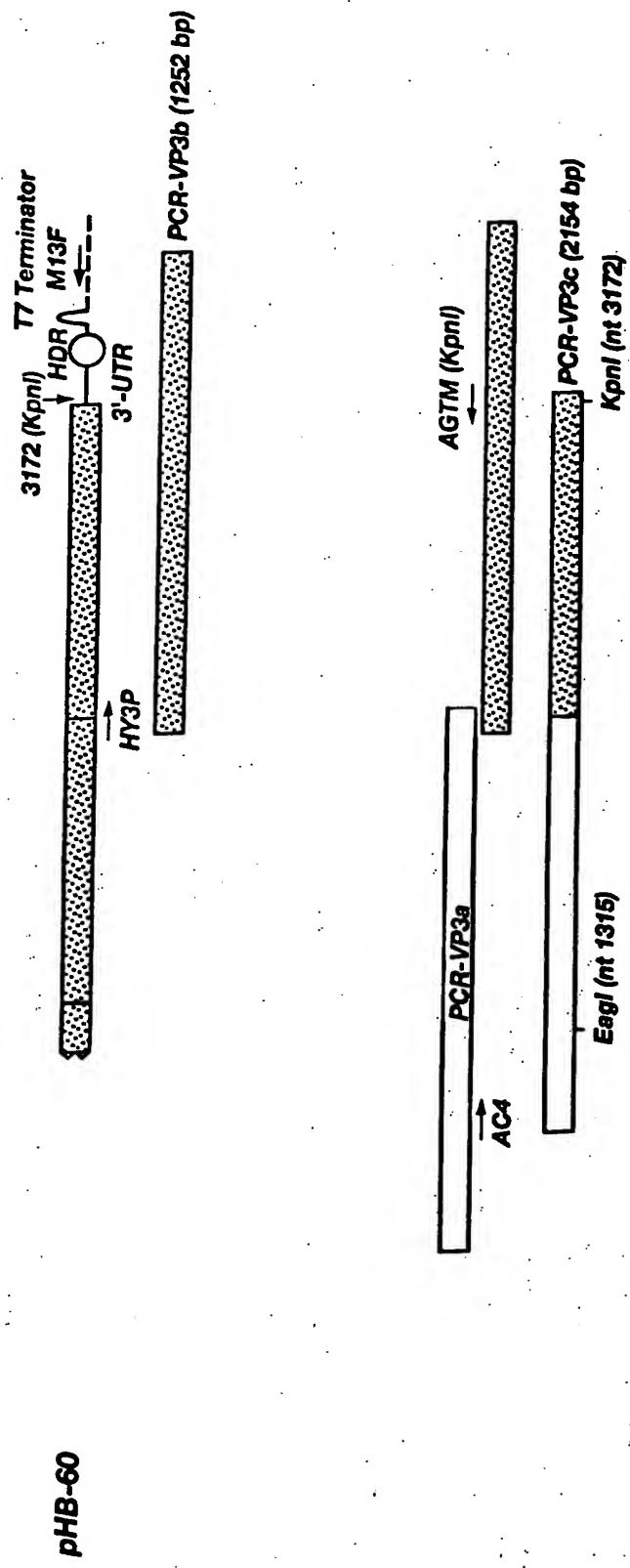
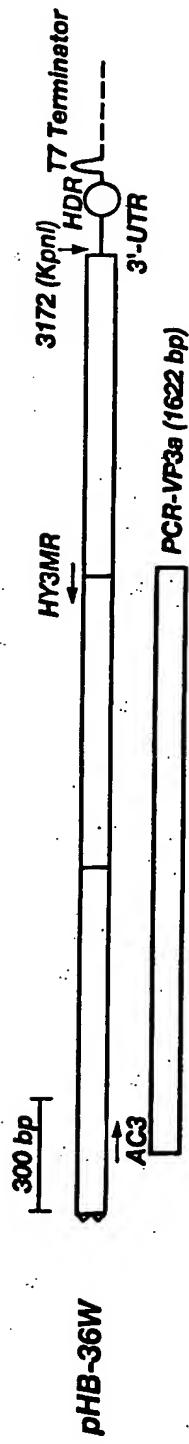


FIG. 8B

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Proposed Amendment
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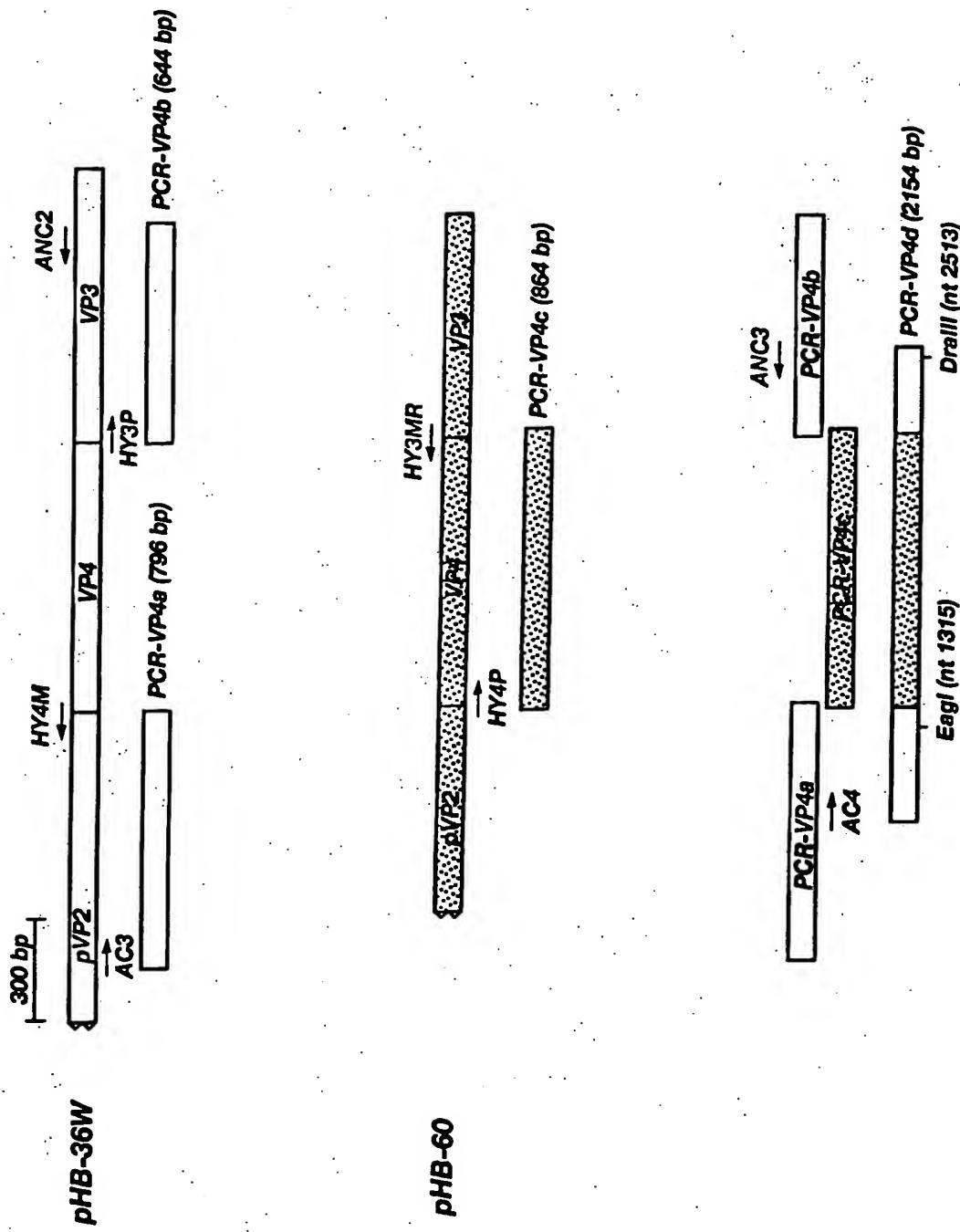


FIG. 8C

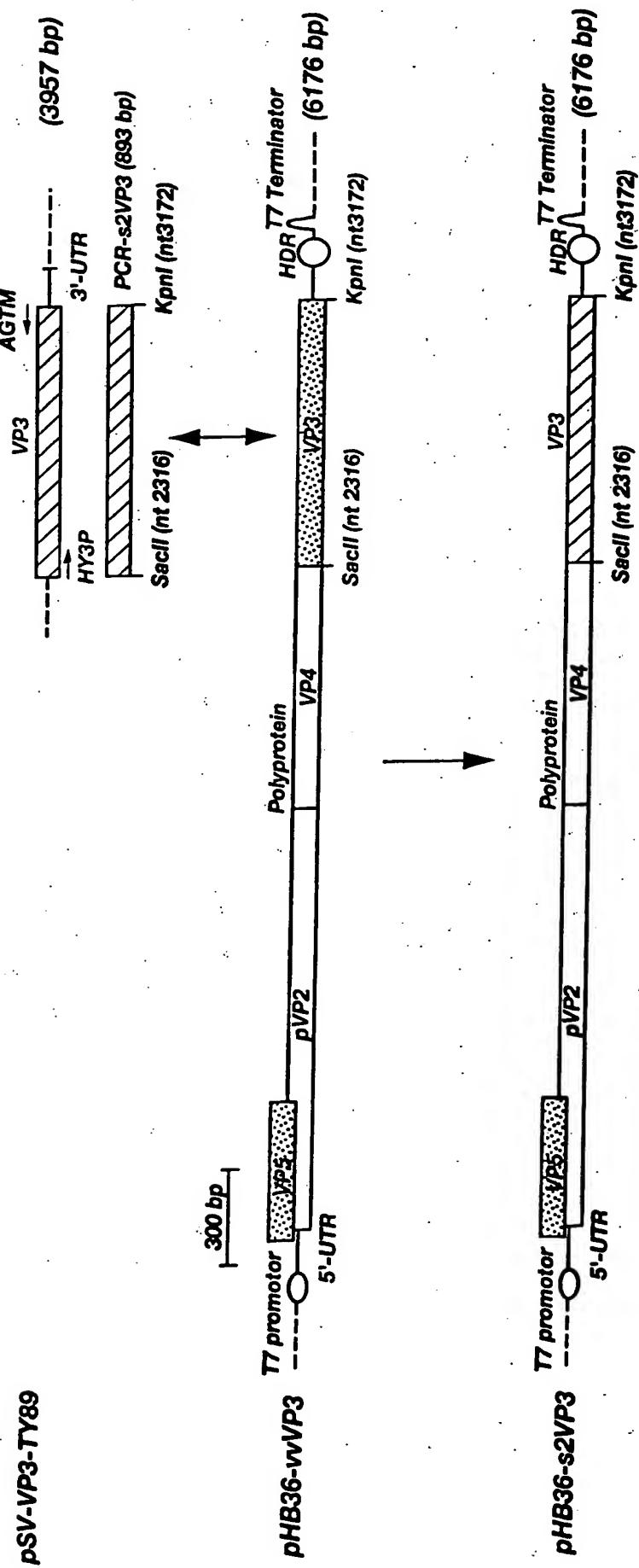


FIG. 8D

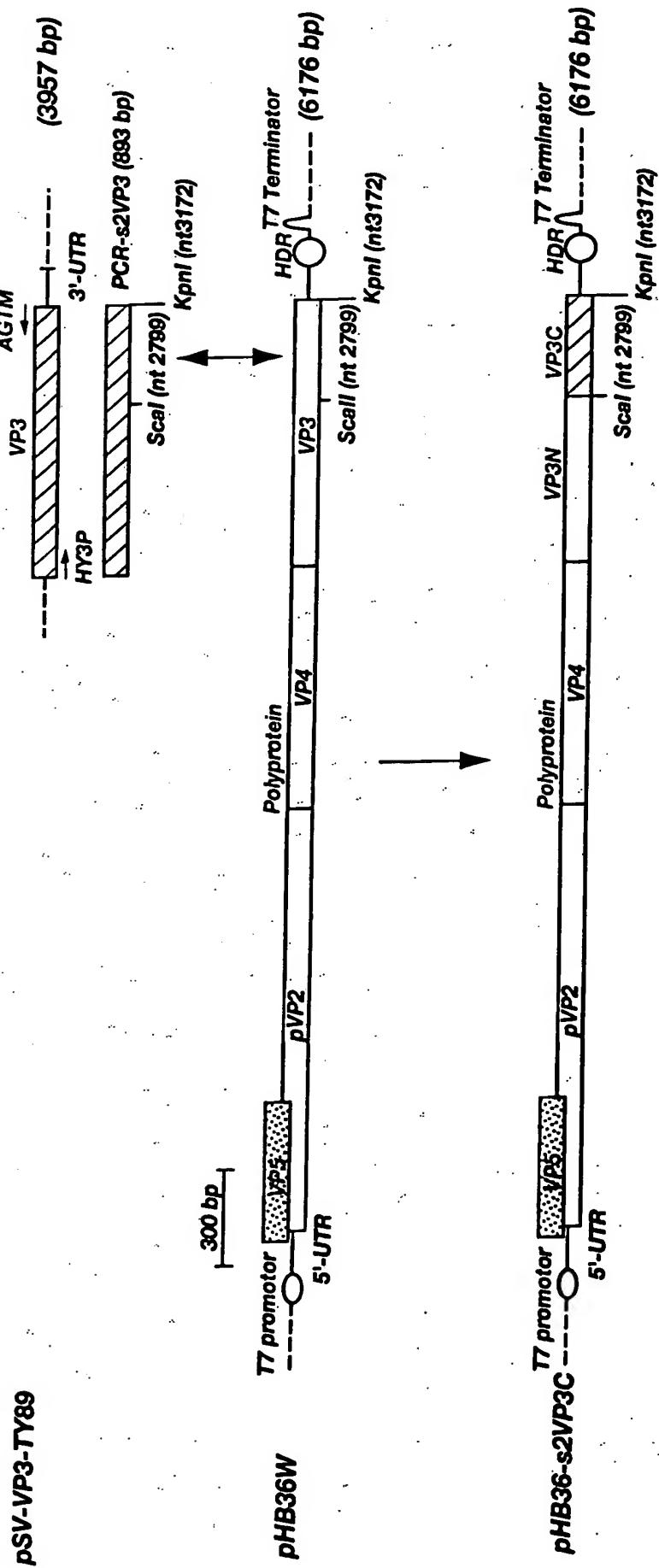


FIG. 8E

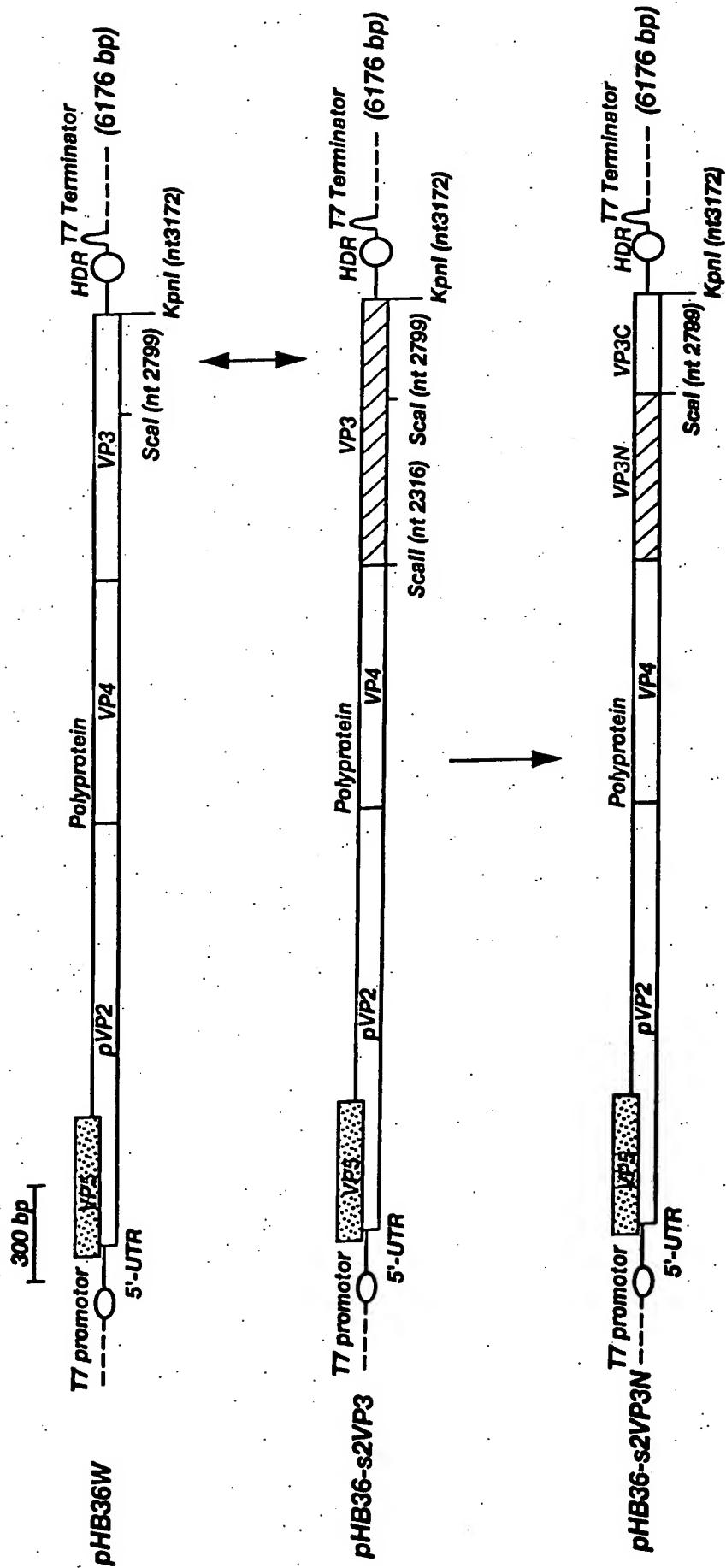


FIG. 8F

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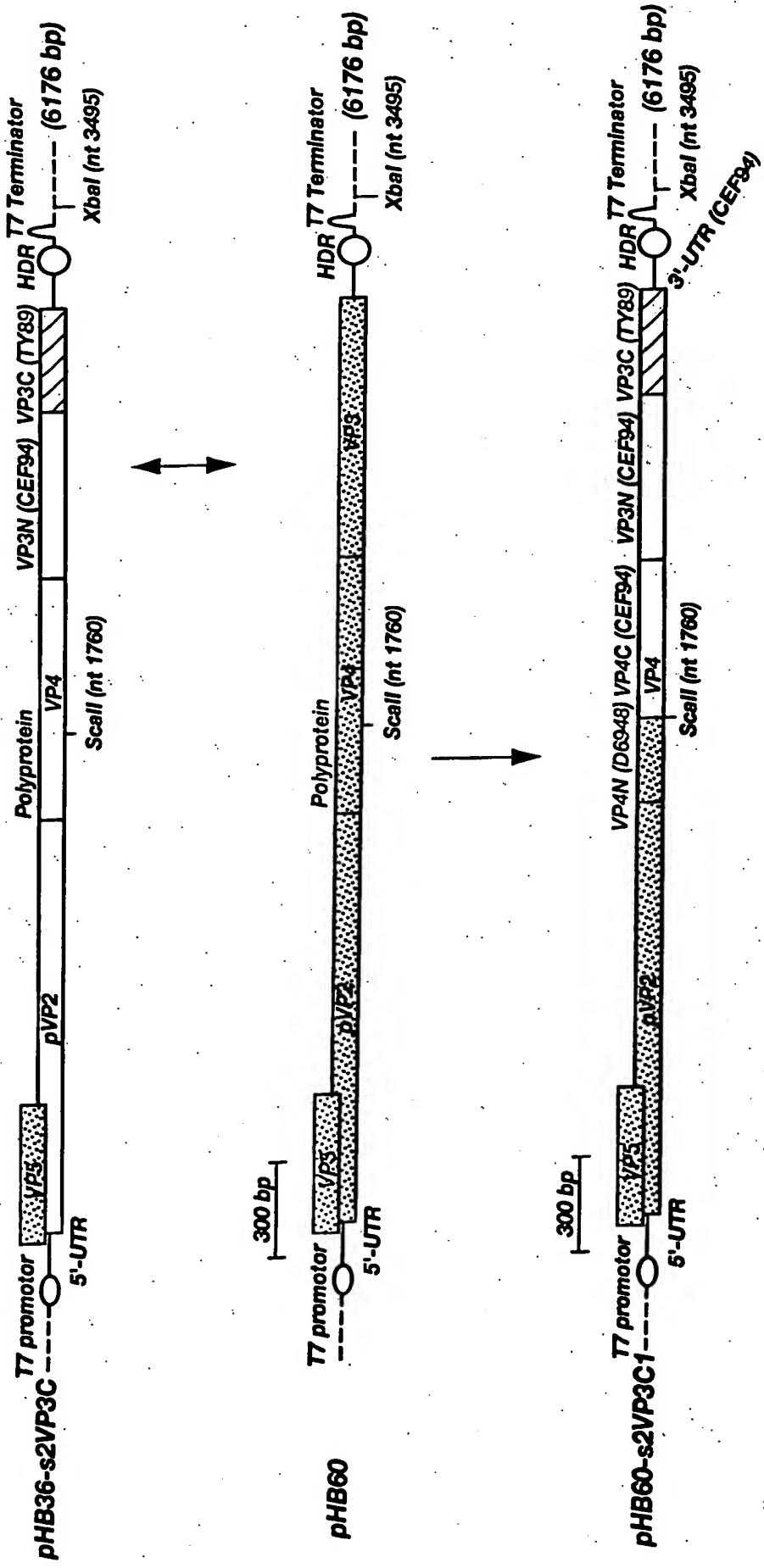


FIG. 8G

FIG. 9

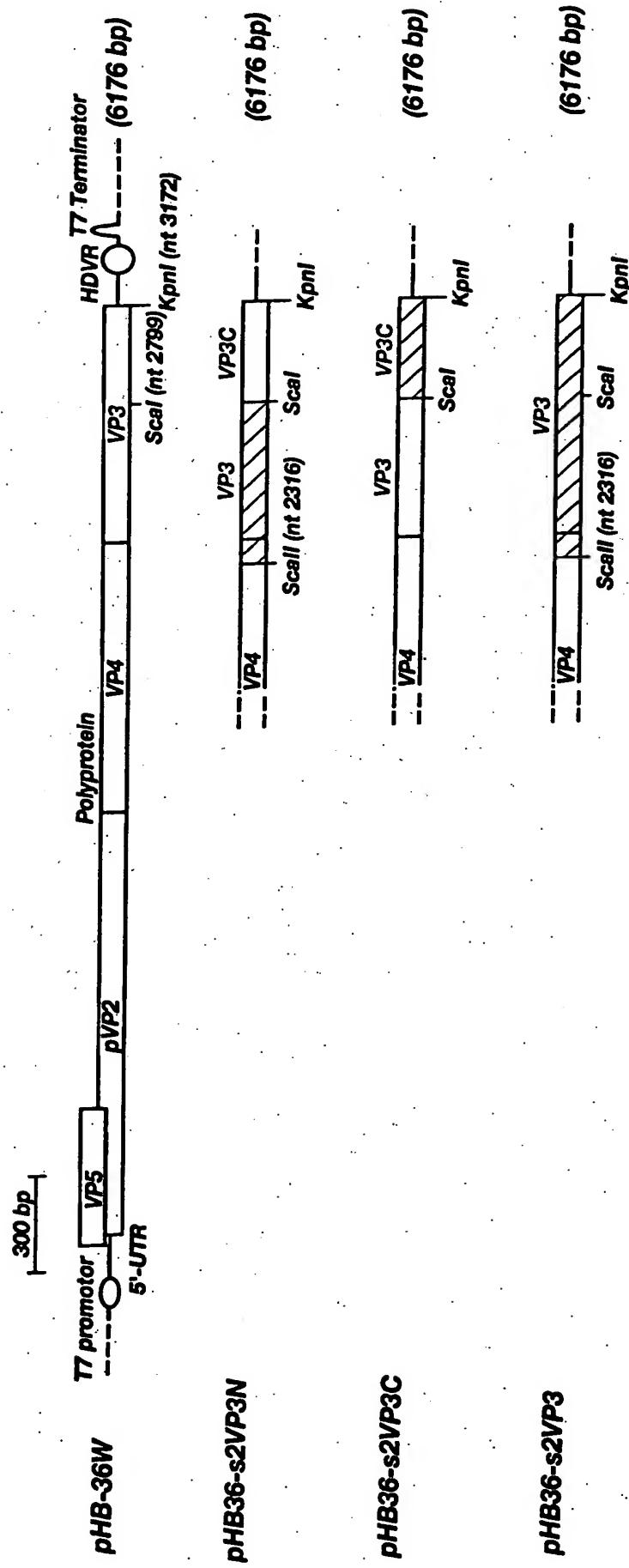


FIG. 10

FIG. 11A

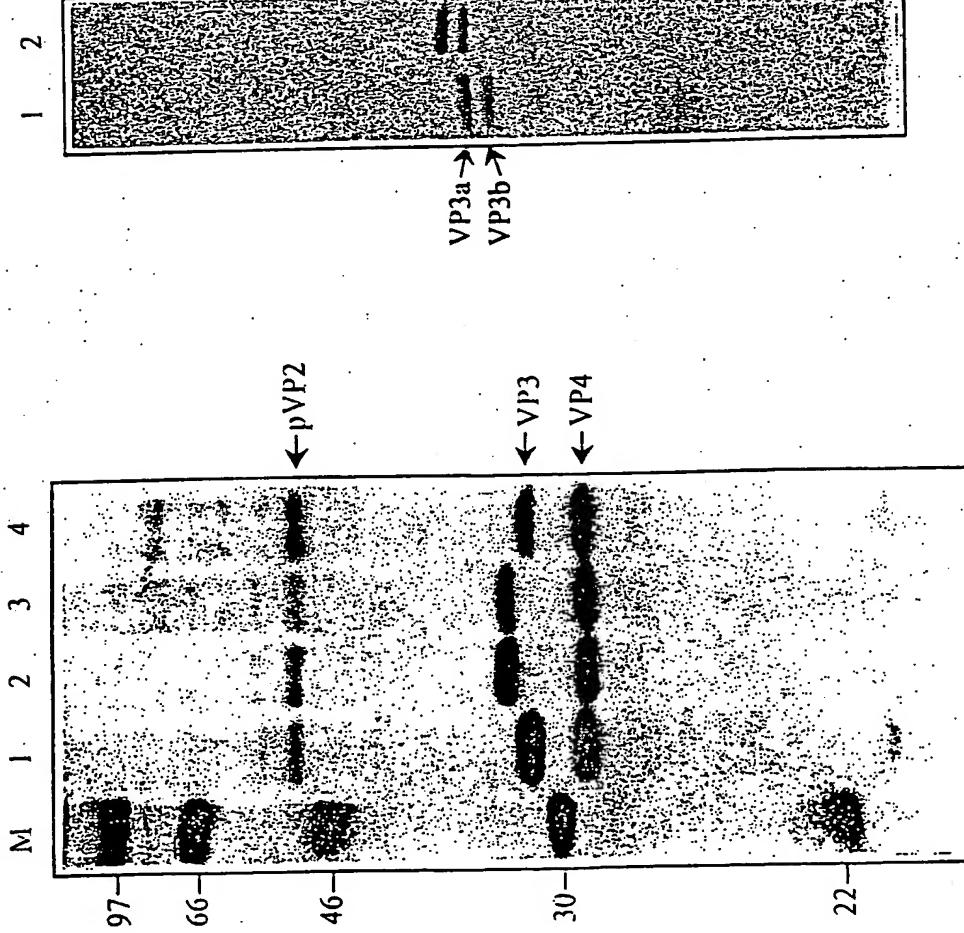


FIG. 11B

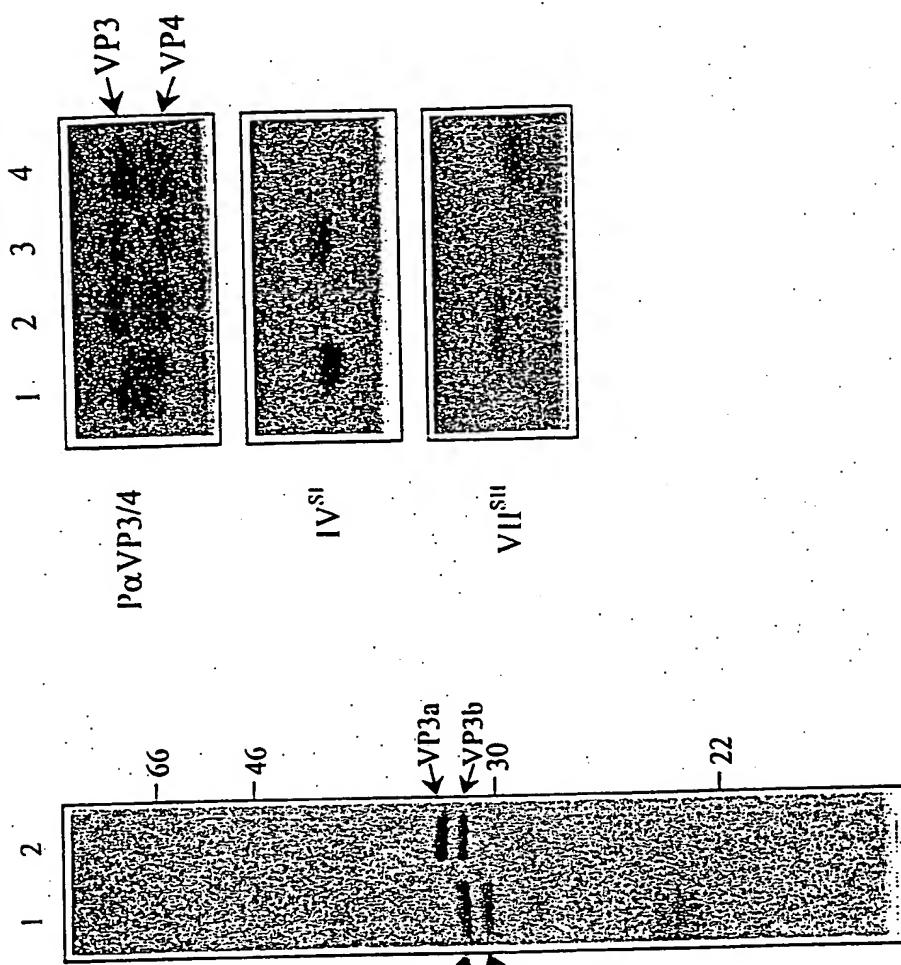
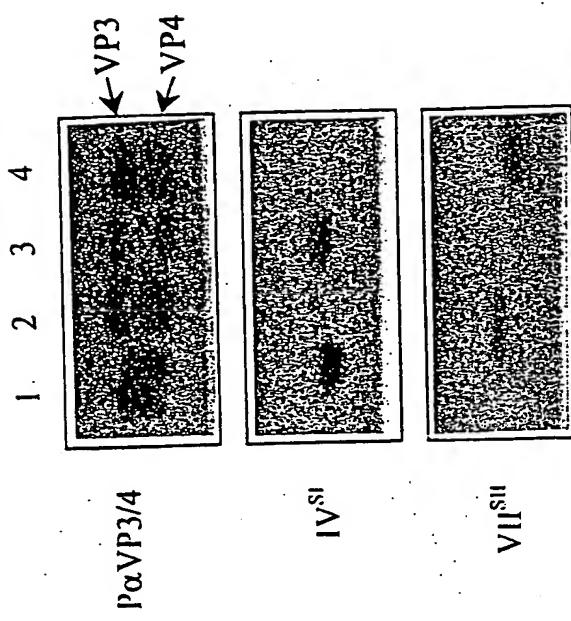


FIG. 11C



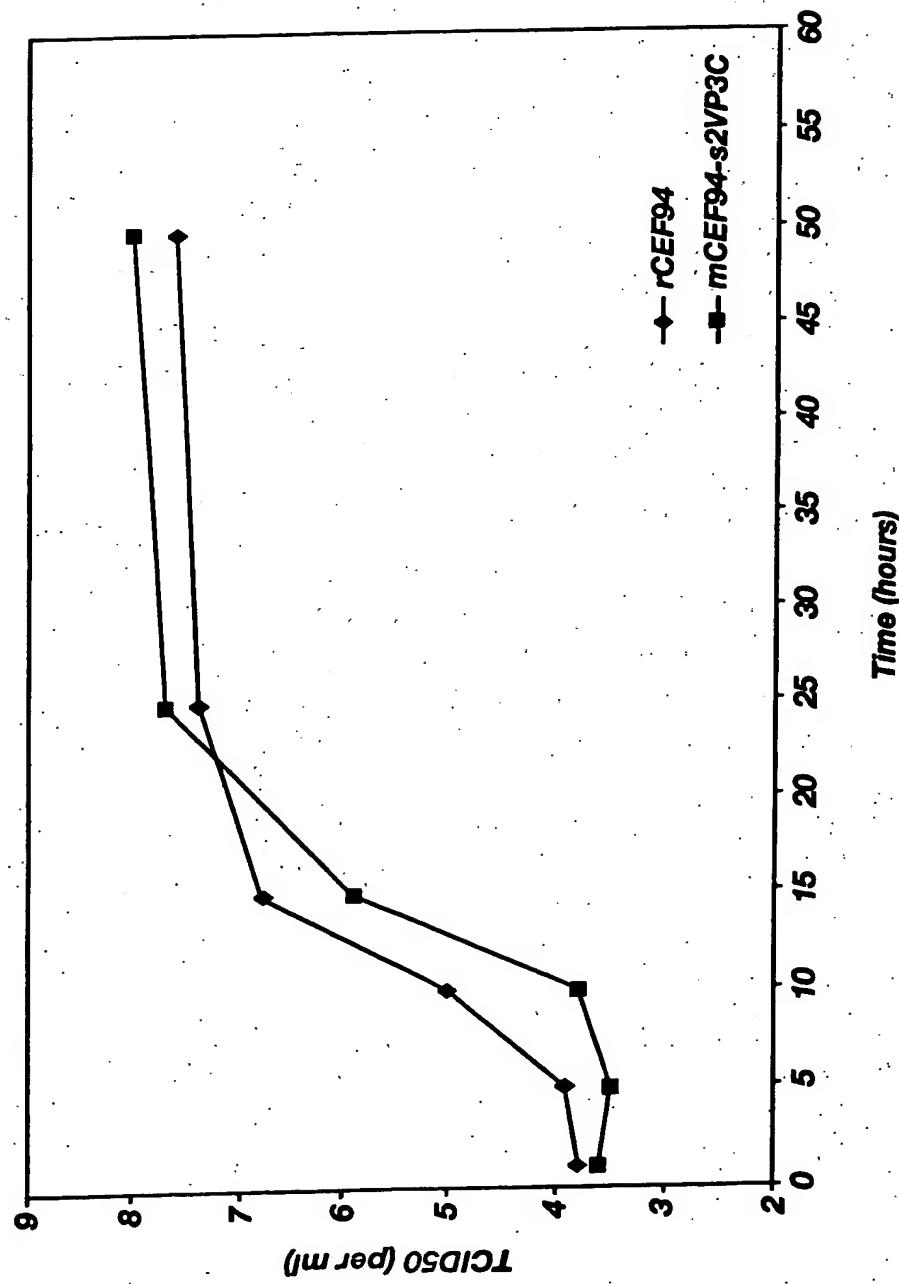
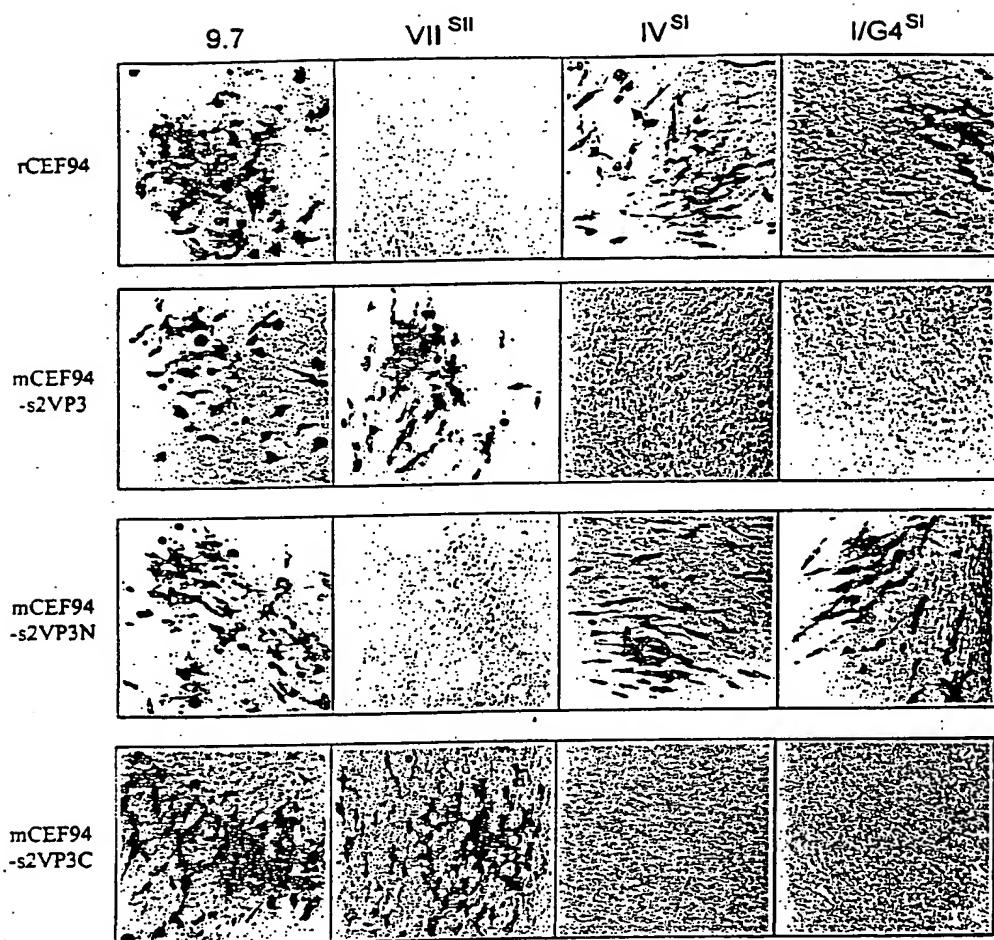


FIG. 12

FIG. 13



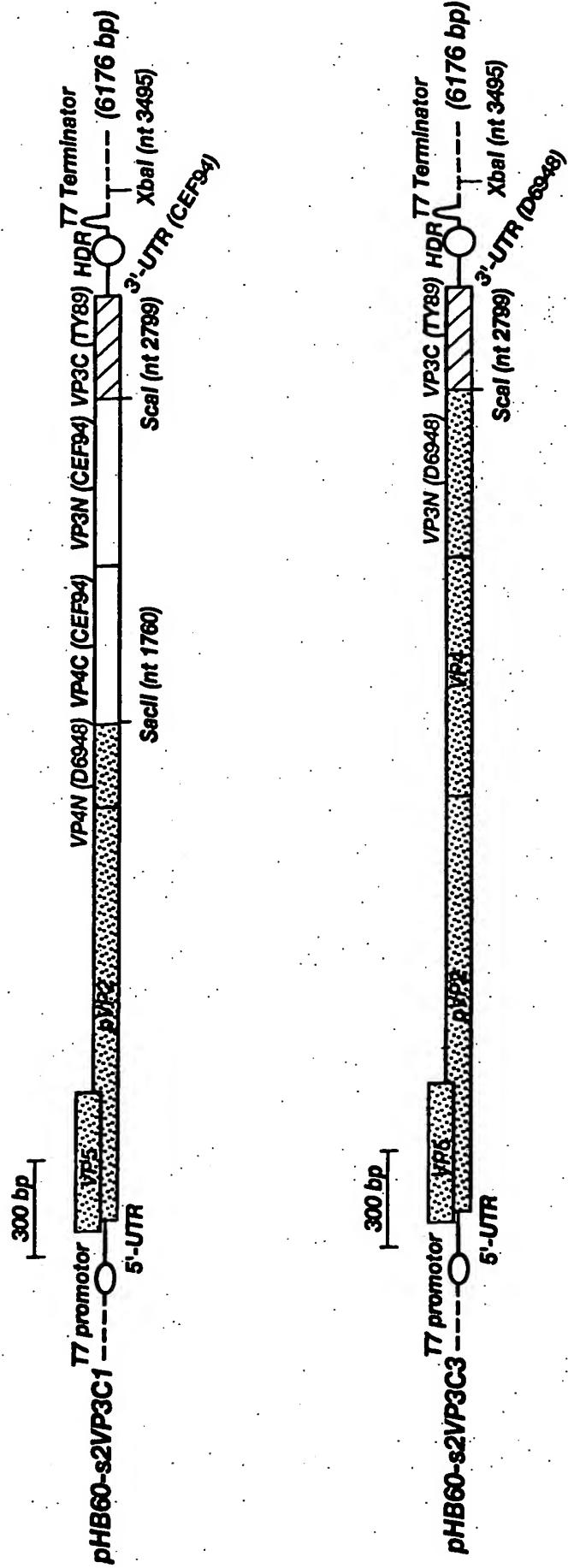
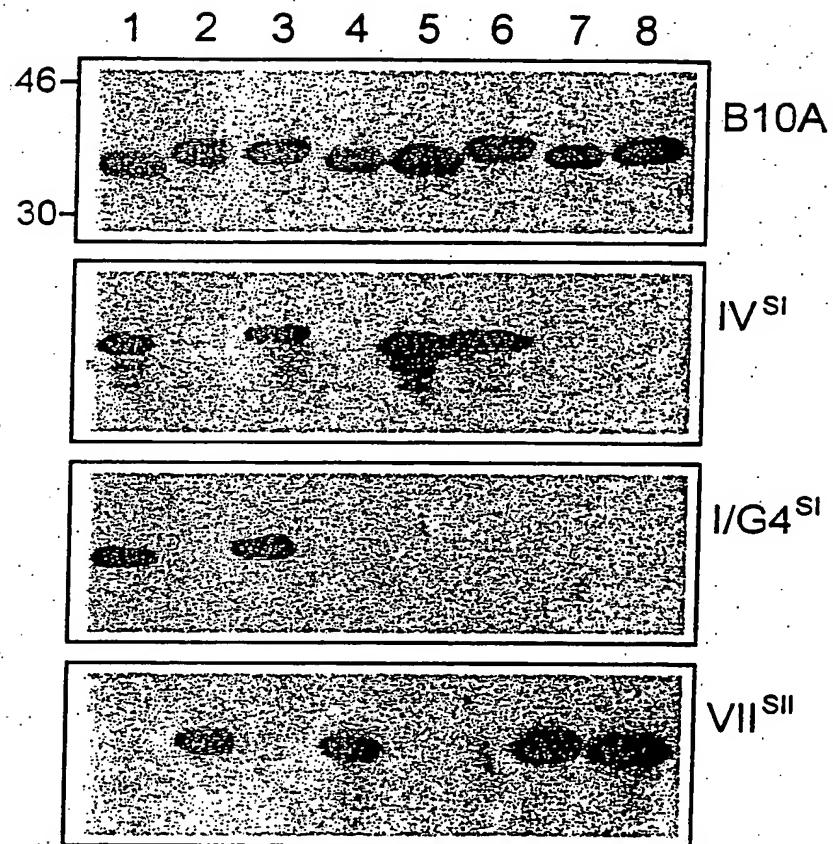


FIG. 14

FIG. 15



Serial No. 10/046,611; Filed 1/14/2002
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FIG. 16

VP4 → VP3

SacII

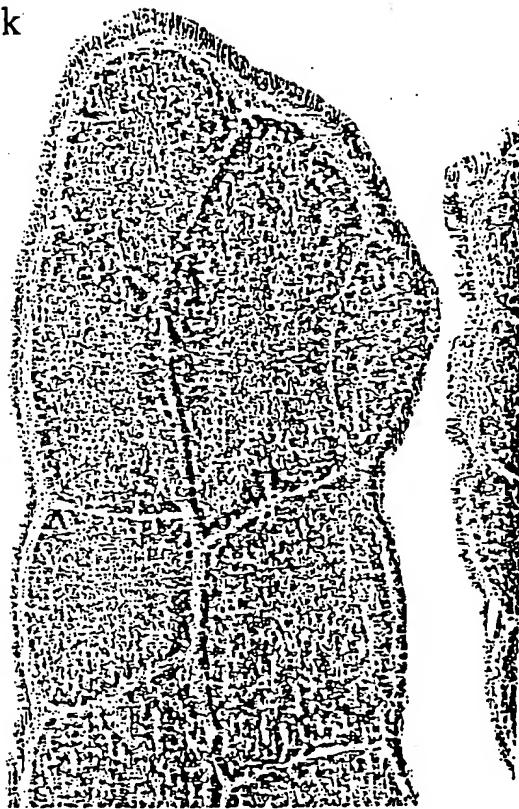
CEF94-PP:	724-FPHNPRD	WDRLPYLNLP	YLPPNAGROY	HLMMASEFK	ETPELESAVR	AMEAAANVDP	780
D6948:	.....	.....	.....	.....	D.....	.....	780
TY89-PP:	724-	.....	.....	T.....	F.....	L.....	780

CEF94-PP:	NEDYLDYVHA EKSRLASEEQ ILRAATSIYG APGQAEPPOA FIDEVAKVYE INHGRGPQNE	960
D6948:	.....	.....
TY89-PP:	P.....P.....V.....V.....R.....R.....	960

CE94-PP:	QMKDLITAM	EMKHRNPRRA	LPKPKPKNA	PTQRPPGRLG	RWIRTVSDED	LE	1012
D6948:	.....	.....	.....	P.....	.....	A.....	1012
TY89-PP:	.....	.....	.....	P.....	.....	S.....	1012

FIG. 17

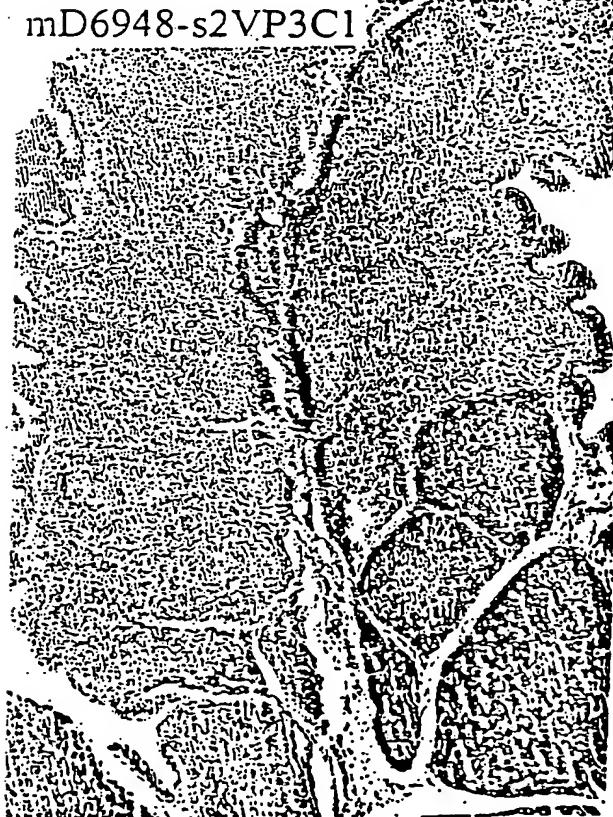
Mock



D6948



mD6948-s2VP3C1



mD6948-s2VP3C3



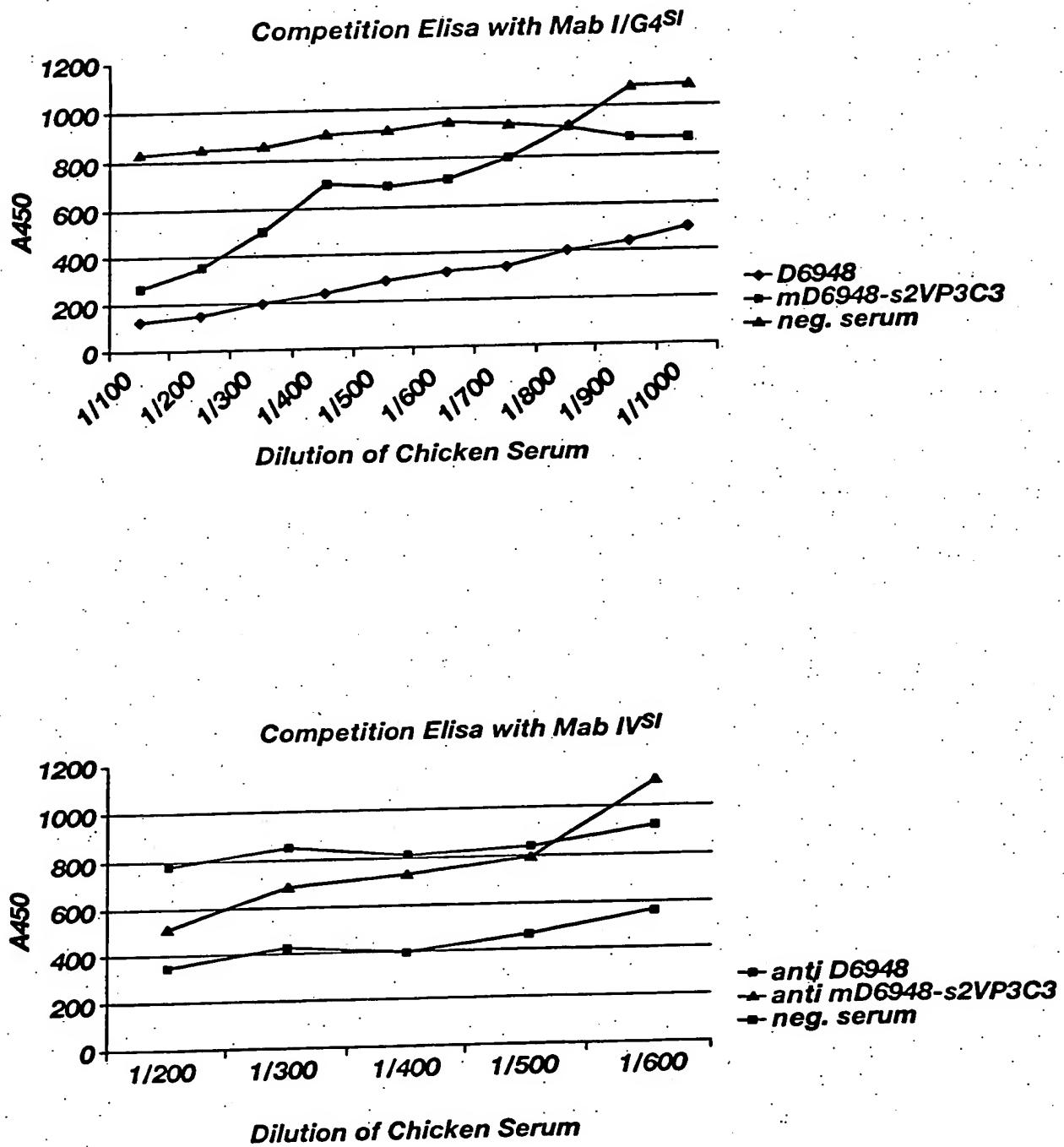


FIG. 18

FIG. 19

D6948-VP5: MLSIMVSRDQ TNDRSDEPA RSNPTDCSVH TEPSDANNRT GVHSGRHPRE AHSQVRDSDL 60
CEF94-VP5:K.....G.....56

D6948-VP5: QFDGGHHRV ANCLFPWF PW LNCGCSLHTA EQWELQVRSD APPCPEPTGQ LQLQASESE 120
CEF94-VP5:I.....1.....116

D6948-VP5: SHSEVKHTPW WRLCTKWHHK RRDLPRKPE
CEF94-VP5:S.....R.....149
.....145

FIG. 20A

D6948-PP:	MTNLQDQTQQ	IIPFIRSSLIM	PTTGPASIPD	DTLEKHTLRS	ETSTYNILTVG	DTGSLIVFFF	60
CEF94-PP:	.....	.....	.....	.....	.....	.....	60
D6948-PP:	PGFPGSIVGA	HYTLQSNGNY	KFDQMLLTQ	NLPASNYCR	IVSRSLTVR	STLPGGVYAL	120
CEF94-PP:	.....	.....	.....	.....	.....	.....	120
D6948-PP:	NGTINAVTFQ	GSLSELTDVS	YNGLMSATAN	INDKIGNVLY	GEGVTVLSP	TSYDLGYVRL	180
CEF94-PP:	.....	.....	.....	.....	.....	.....	180
D6948-PP:	GDPIPAIGLD	PKMVATCDSS	DRPRVYTITA	ADDYQFESSQY	QAGGVITITLF	SANIDAITSL	240
CEF94-PP:	.....	.....	.....	.....	.....	.....	240
D6948-PP:	SIGGELVFQT	SVQGLLIGAT	IYLLIGFDGT	VITRAVAADN	GLTAGTDNIM	PFNIVIPTSE	300
CEF94-PP:	V.....	H..V	.....	.....	N.....	T.....L.....N.	300
D6948-PP:	ITQPITSIKL	EIVTSKSGGO	AGDQMSWSAS	GSLAVTIHGG	NYPGALARPV	LVAXERVATG	360
CEF94-PP:	.....	.....	.....	.....	.....	.....	360
D6948-PP:	SVVTAGVSN	FELIPNELA	KNLVTEYGRF	DPGAMNYTKL	ILSERDRLG	KTWMPTREYT	420
CEF94-PP:	.....	.....	.....	.....	.....	.....	420
D6948-PP:	DFREYFMEVA	DLNSPLKIAG	AFGFKDIIRA	LRRIAVPVVS	TLFPAAPLA	HAIGEGVDYL	480
CEF94-PP:	.....	.....	.....	.....	I.....	.....	480
D6948-PP:	LGDEAQQAASG	TARAASGKAR	AASGRIROLT	LAADKGYEVV	ANLFQQPQNP	WVDGILLASP	540
CEF94-PP:	.....	.....	.....	.....	.....	.....	540
D6948-PP:	ILRGAHNLD	VLREGATLEP	WITTEDAM	TPKALNSKMF	AVIEGVREDL	QPPSQRGSF	60
CEF94-PP:	V.....	.....	.....	.....	.....	.....	60
D6948-PP:	RTLSGHRYVG	YAPDGVLPLE	TGRDYTVWPI	DDWDDSIML	SKDPIPPIVG	NSGNLAIAYM	66
CEF94-PP:	.....	.....	.....	.....	.....	.....	66
D6948-PP:	DVERPKVPIH	VAMTGAJNAY	GEIENVFRS	TKIATAHRLG	IKLAGPAGFD	VNTGSNWATE	72
CEF94-PP:	.....	C.....K	.....	.....	P.....	.....	72

FIG. 20B

D6948-PP: IKREFPHNPPRD WDRLPYLNLP YLPPNAGROY DLAMAASEEK ETPELESAVR AMEAAANVDP 780
CEF94-PP: H..... 780

D6948-PP: LEQSALSVFM WLEENGIVTD MANFALSDPN AHRMRNFLAN APOAGSKSQR AKYGTAGYGV 840
CEF94-PP: 840

D6948-PP: EARGPTPEEA QREKDTRISK KMETMGIYFA TPEWVALNIGH RGPSPGQLKY WONTREIPDP 900
CEF94-PP: 900

D6948-PP: NEDYLDYVHA EKSRLASEEQ ILRAATSIYG APGQAEPQEA FIDEVAKVYE INHGRGPQE 960
CEF94-PP: 960

D6948-PP: QMKDLLLTAM EMKHNPRRA PPKPKPKPNA PTQRPPGRLG RWIRAVSDED LE 1012
CEF94-PP: L..... T..... 1012

FIG. 21A

D6948-VP1: MSDVFNSPQA RSKISAAFGI KPTAGQDVEE LLIPKWWVPP EDPLASPSRL AKFLRENGYK 60
CEF94-VP1: . . . I . . . T 60

D6948-VP1: ILQPRSLPEN EEEYETDQILP DLAWMRQIEG AVLKPFTSLP IGDQEYFPKY YPTHRPSREK 120
CEF94-VP1: V 120

D6948-VP1: PNAYPPDIAL LKQMIYLFQ VPEATDNLKD EVTLLTONIR DKAYGSGYM GQATRIVAMK 180
CEF94-VP1: NEG 180

D6948-VP1: EVATGRNPKNK DPLKLGYTEE SIAQLLDITL PVGPPGEDDK PWVPLTRVPS RMLVLTGDVD 240
CEF94-VP1: 240

D6948-VP1: GEEFEVDYLP KINLKSSGL PYVGRTKGET IGEMIAISNQ FRELSSALLK QGAGTKGSNK 300
CEF94-VP1: D T 300

D6948-VP1: KKLLSMLSODY WYLSCGLLFP KAERYDKSTW LTKTRNIWSA PSPTHLMISM ITWPVMSNSP 360
CEF94-VP1: 360

D6948-VP1: NNVLNIEGCP SLYKENPFRG GLNRIVEWIM APDEPKALVY ADNIYIVHSN TWYSIDLEKG 420
CEF94-VP1: L . . . E 420

D6948-VP1: EANCTRQHMQ AAMYIILTRG WSDNGDPMFN QTWATFAMNI APALUVVDSSC LIMMLQIKTY 480
CEF94-VP1: 480

D6948-VP1: GQGSGNAATF INNHLLSTLV LDQWNLMKQP SPDSEEFKSI EDKLGINFKI ERSIDDIRGK 540
CEF94-VP1: R 540

D6948-VP1: LRQLVPLAQOP GYLGGVEPE QPSPTVELD LGWSATYSKD LGIYVPVLKD ERLFCSAAYP 600
CEF94-VP1: . . . L S 600

D6948-VP1: KGVENKSLKS KVIGIEQAYKV VRYEARLKV GWNYPLLNKA CKNNASAARR HIEAKGFPLD 660
CEF94-VP1: G 660

D6948-VP1: EFLAEWSELS EFGEAFFEGFN IKLTVTPESL AELNRPVPPK PPNVNRPVNT GGLKAVSNAL 720
CEF94-VP1: S 720

FIG. 21B

D6948-VP1: KTGGRNNEAG LSGGVILLATA RSRLQDAVK AAEAEKLIHKS KPDDPDADWF ERSETLSDLL 780
CEF94-VP1: 780

D6948-VP1: EKADIASKVA HSAVLVETSVA LEAVQSTSVY TPKYPEEVKNP QTASNPVVG, HLPAAKRATGV 840
CEF94-VP1: 840

D6948-VP1: QAALLGGAGTS RPMGMEAPTR SKNAVMAKR QRQKESRQ -
CEF94-VP1: Q P 879 881

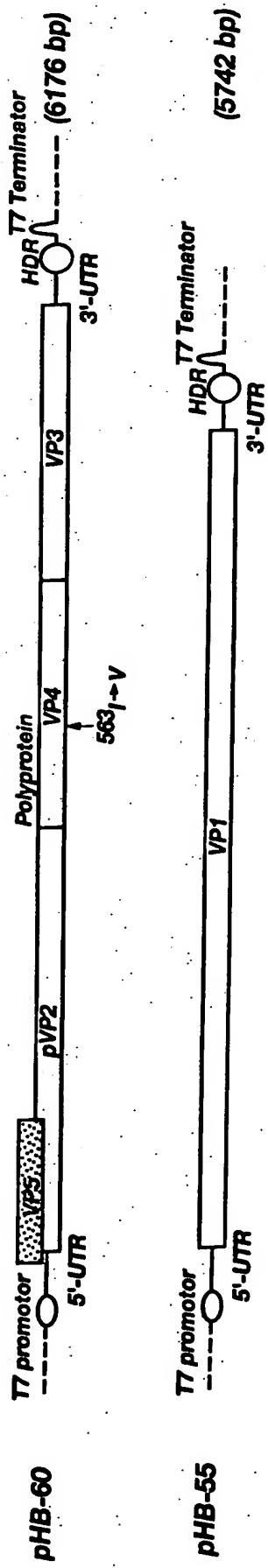
**FIG. 22**

FIG. 23A

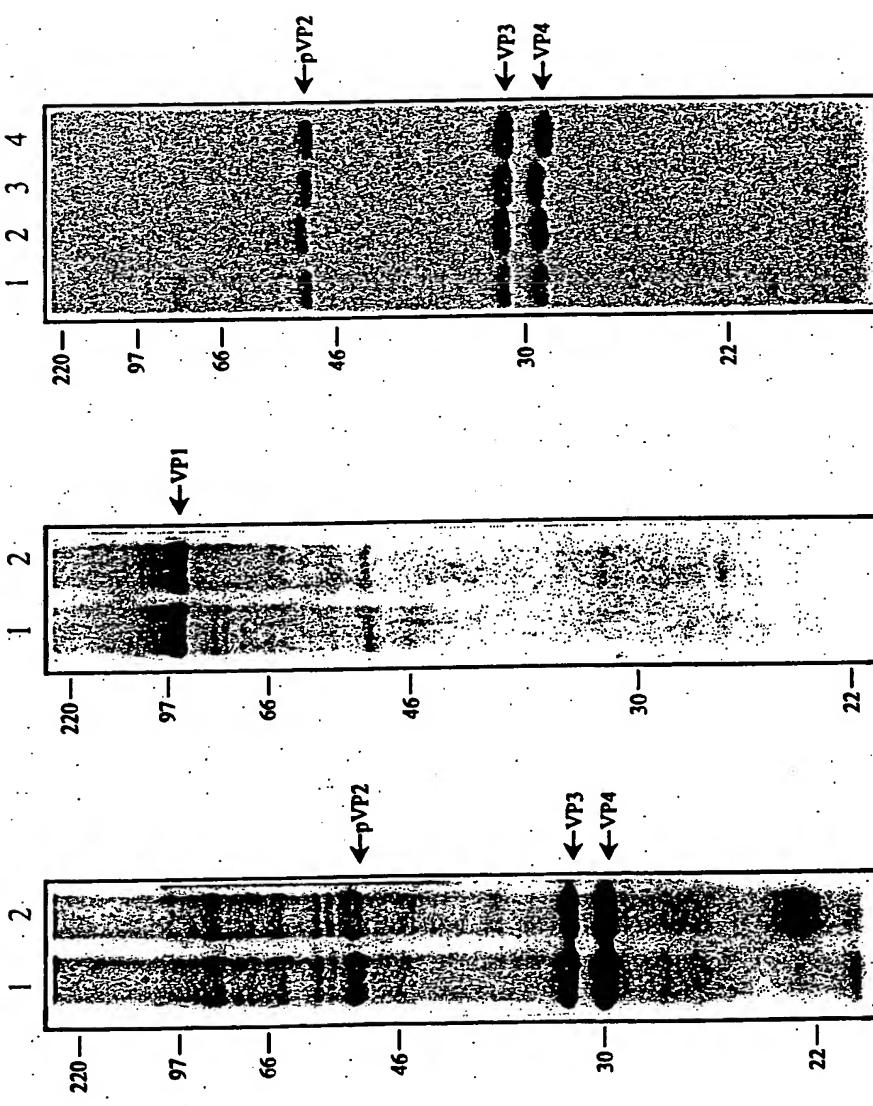
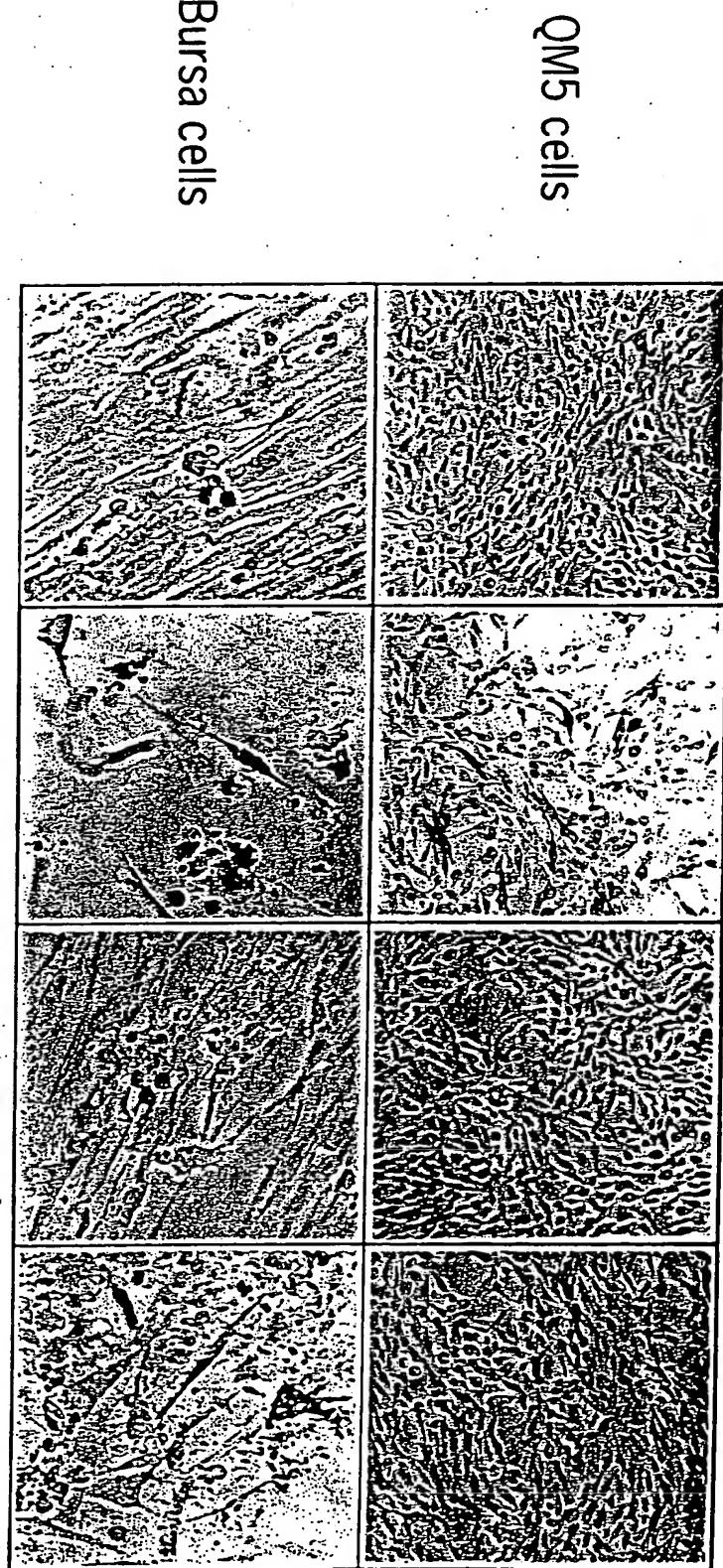


FIG. 23B

FIG. 23C

FIG. 24



rD4948

rCEF94

srlBDV-DACB

srlBDV-CADB

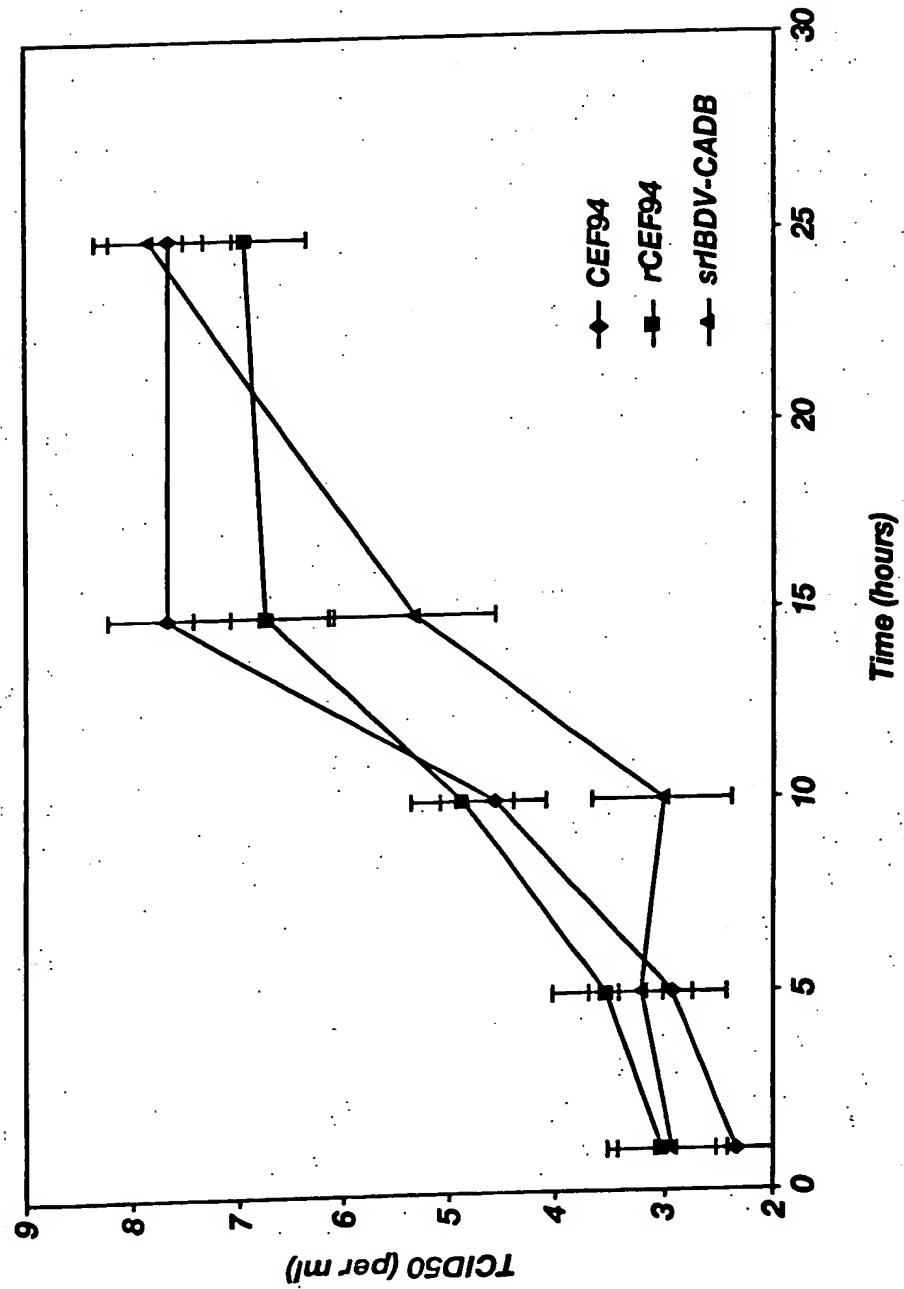


FIG. 25

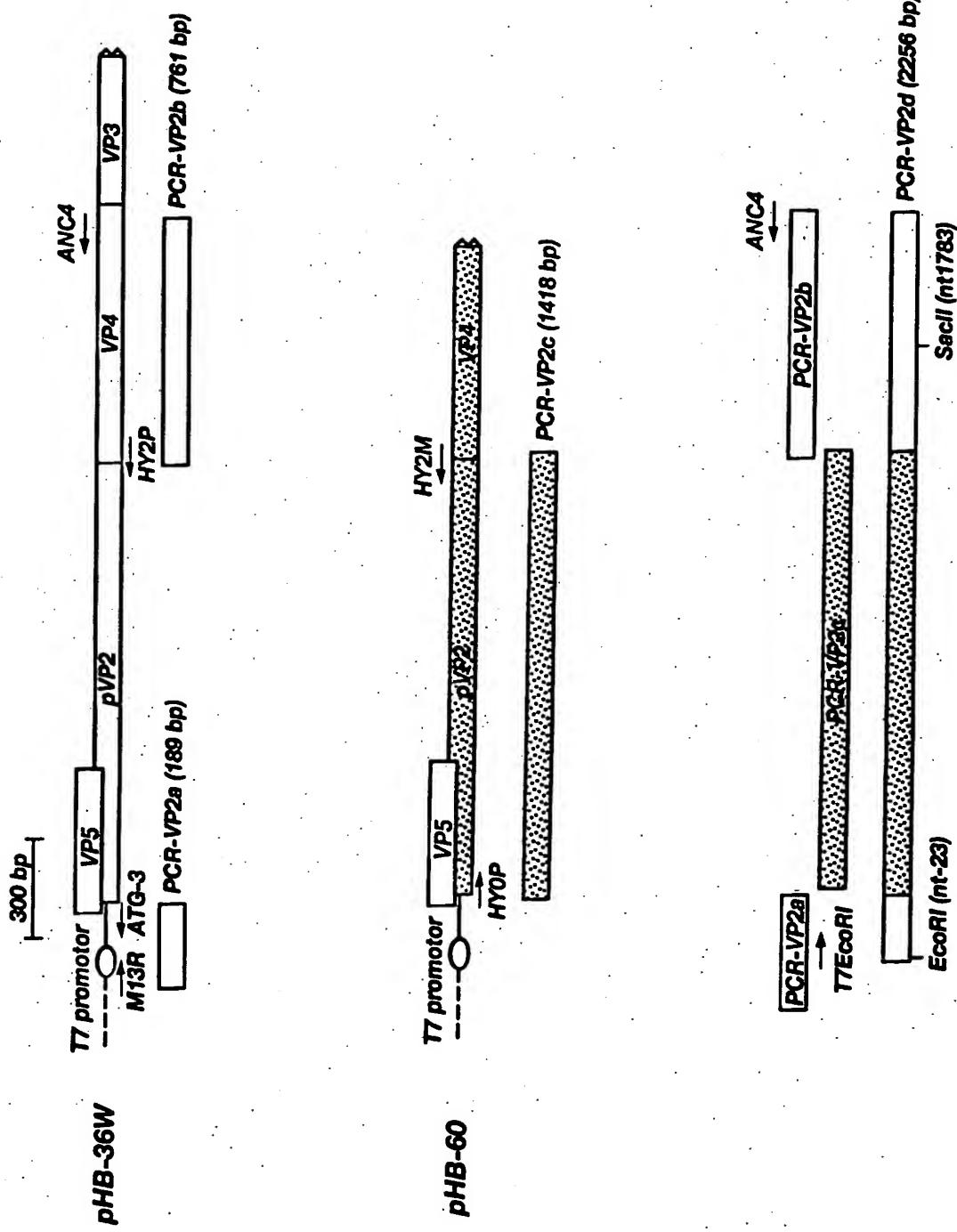
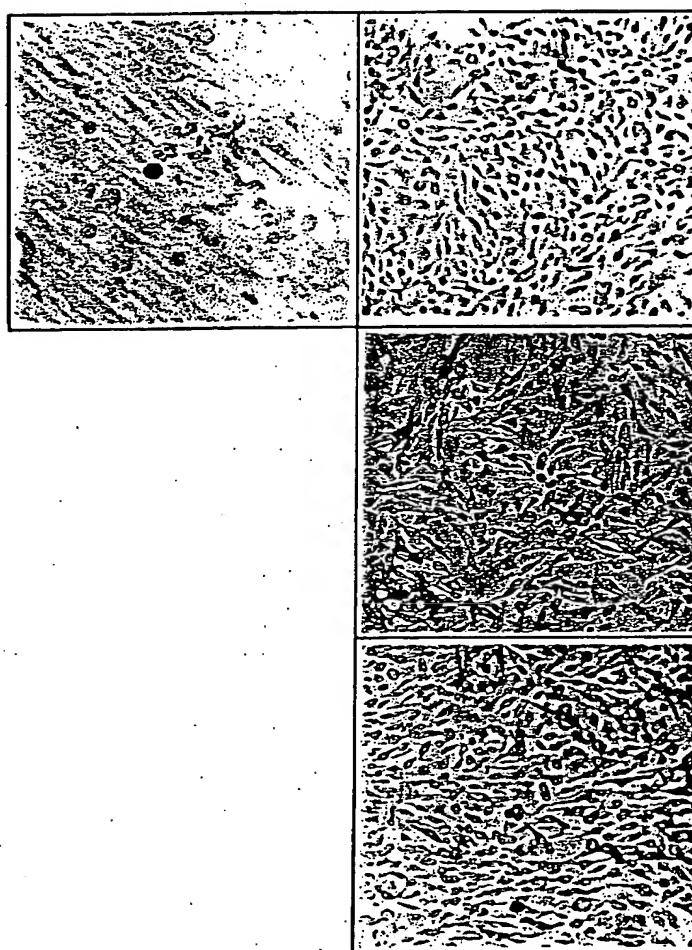
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FIG. 26

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FIG. 27

Bursa cells



mCEF94-WVP2